

THE SENIOR SYMPOSIUM

SHARE YOUR PASSIONS

April 15, 2016

Sponsored by the
Center for Teaching and Learning



HOBART AND WILLIAM SMITH COLLEGES



HOBART AND WILLIAM SMITH
COLLEGES

Office of the President

Dear Members of the Hobart and William Smith Community,

I am proud to welcome you to the eighth annual Senior Symposium – a wonderful tradition that celebrates the sustained and sophisticated work of our seniors and MAT students who, under the mentorship of faculty, push the boundaries of their disciplines and enhance the intellectual community at HWS.

This year's program features an impressive 110 presentations delivered by 132 student presenters. Whether in the classroom or studio, the library or laboratories, in the Geneva community or across the globe – the consequential work of HWS students gives voice to new ideas and conversations.

On behalf of the campus, I congratulate all of the participants in this year's Symposium and thank them for their commitment to our intellectual community. I am grateful to the many members of the faculty who have engaged with these students and have encouraged them to pursue this challenging and vital work. And finally, it is with deep appreciation that I commend the Center for Teaching and Learning and Dr. Susan Pliner and her staff for the vision and leadership in making the Senior Symposium a highlight of the spring semester and pride point for the Colleges as a nationally recognized leader in academics.

Sincerely,

A handwritten signature in black ink that reads "Mark D. Gearan".

Mark D. Gearan
President



HOBART AND WILLIAM SMITH
COLLEGES

Office of the Provost

Dear HWS Community,

I am very proud of our students' scholarly and creative work, as well as their research and community-infused projects. At Hobart and William Smith Colleges, we are fortunate to see and celebrate our students' intellectual passion in the Senior Symposium. The event represents multiple aspects of what makes a liberal arts education so valuable: interdisciplinarity, close student-faculty interaction, attention to multiple learning modes and opportunities, and a high standard of rigor and intellectual engagement. As Provost and Dean of Faculty, I look forward to sharing these great examples of what a Hobart and William Smith College education can produce, with the greater HWS community.

I also want to express my gratitude to the faculty and staff who have nurtured these students and their work throughout their time at HWS, and to those who have mentored and sponsored the students as they prepared their Senior Symposium presentations. I am also grateful to those who will take time from their busy schedules to moderate panels on April 15th. Welcome all and thank you,

Sincerely,

A handwritten signature in black ink that reads 'Titilayo Ufomata'.

Titilayo Ufomata
Provost and Dean of Faculty



HOBART AND WILLIAM SMITH
COLLEGES

Members of the HWS Community:

The *Senior Symposium* is an exciting event which reflects and honors the depth and breadth of engagement among Hobart and William Smith students in a diverse spectrum of academic and creative interests. It makes visible that which is often invisible, the long hours and hard work students dedicate to the intellectual journey during their four years at the Colleges. Most importantly, it provides an opportunity for students, under the guidance of faculty advisors, to engage each other as teachers and learners.

As your Deans, we join with the Center for Teaching and Learning in applauding those who are participating in the seventh Senior Symposium as presenters. This is an important academic achievement that you now have as part of your legacy. We also want to applaud the faculty and staff who will serve as panel moderators. The Deans also join in the welcoming of all members of the HWS community to this wonderful demonstration of student teaching and learning.

Sincerely,

Handwritten signature of Catherine Gallouët in black ink.

Catherine Gallouët, Ph. D.
Dean
William Smith College

Handwritten signature of Valerie Gunter in black ink.

Valerie Gunter
Assistant Dean
William Smith College

Handwritten signature of Lisa Kaenzig in black ink.

Lisa, Kaenzig, Ph. D.
Associate Dean
William Smith College

Handwritten signature of Eugen Baer in black ink.

Eugen Baer, Ph. D.
Dean
Hobart College

Handwritten signature of Chip Capraro in black ink.

Chip Capraro, Ph. D.
Associate Dean
Hobart College

Handwritten signature of David Mapstone in black ink.

David Mapstone
Assistant Dean
Hobart College



HOBART AND WILLIAM SMITH
COLLEGES

Dear Hobart & William Smith Colleagues, Students, and Friends:

It gives me great pleasure to invite you to join the Center for Teaching and Learning at the eighth annual Senior Symposium. The Senior Symposium is my favorite day of the academic year, one in which we honor the academic interests, research, passion, and creativity of the 2016 Senior classes and MAT candidates. The Senior Symposium is a visible and tangible representation of the diversity and breadth of the work our students pursue, as well as an example of a community that collectively celebrates student achievement. This 8th year milestone is the continuation of a rich tradition here at the Colleges.

The Center for Teaching and Learning believes that in order to create, innovate, inspire, and lead lives of consequence, our journeys begin with 4 cornerstones: we ENGAGE in our own learning processes in order to ACCOMPLISH the goals we set so that we can EMPOWER ourselves and others and ENRICH our lives as learners and teachers. The Senior Symposium is a culmination of students' journeys: an opportunity for them to empower and enrich the HWS community by engaging in interdisciplinary dialogues about their intellectual accomplishments.

I would like to extend my sincere thanks to the dedicated staff of the CTL: Ruth Shields, Susan Hess, Ingrid Keenan, Jamie Slusser, Sam Vann, David Silver and our exceptional student assistants for their dedication and hard work towards making this event possible.

Hobart and William Smith Colleges is truly a special place for learning and living. I hope that you share in my excitement for this event, which highlights the wonderful array of academic opportunities available to our students. I look forward to seeing many of you on Friday, April 15th!

Sincerely,

A handwritten signature in black ink, appearing to read 'Susan Pliner', with a long horizontal flourish extending to the right.

Susan M. Pliner, Ed.D.
Associate Dean of Teaching, Learning, and Assessment
Director, Center for Teaching and Learning

300 Pulteney Street, Geneva, NY 14456
P (315) 781-3000
www.hws.edu

ACKNOWLEDGEMENTS

The eighth annual Senior Symposium was made possible by the vision, leadership, and efforts of many in the Hobart and William Smith community:

Office of the President

Office of the Provost

Offices of the Hobart and William Smith Deans

Office of Communications

IT Services

Center for Teaching and Learning

Lucia Cardone, Alejandra Castillo, Vincent Creer, Susan Hess, Ingrid Keenan, Alana Kilcullen, Domenic Merolla, Susan Pliner, Ruth Shields, David Silver, Jamie Slusser, Alexis Spann, Sam Vann

Abstract Writing and Presentation Workshop Facilitators

Geoffrey Babbitt, Kelly Craig, Rachel Fischer, Amy Forbes, Cheryl Forbes, Alex Janney, Peter Mayshle, Kaylyn O'Brien, Ben Ristow, Solome Rose, Emily Saeli, Maggie Werner

Sincere thanks are extended to the students, faculty advisors, faculty moderators, department administrative assistants, staff, alumnae, and all who have contributed to the success of this year's event.

RESEARCH SUPPORT AND AWARDS

Symposium students have received generous support for their academic projects from the following organizations, programs, and funds:

Biology Department, Hobart and William Smith Colleges

Center for Global Education

Cohen Fellowship

Environmental Research Grant

The Finger Lakes Institute, Hobart and William Smith Colleges

Honors Research Stipend

National Science Foundation Grant AST-1312453

Office of the President, Hobart and William Smith Colleges

Office of the Provost, Hobart and William Smith Colleges

The Patchett Foundation

Professor Romana Lashewycz-Rubyx Honors Fund

Psychology Department, Hobart and William Smith Colleges

Rochester Academy of Science Student Grant

Single-Investigator Cottrell Science Award

Stephen Cohen Honors Fund

William Smith College Deans Office

Young Trust Fund

Senior
Symposium
2016
Presenters

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Abramov, Nora	Economics	Felipe Rezende	10:10 - 11:05	Learning Studio 3
Ackbarali, Aaron	Mathematics	Jonathan Forde	4:05 - 5:00	Learning Studio 1
Aliquo, Stephanie	Sociology	Wesley Perkins	11:15 - 12:10	Geneva Room
Anastasi, Chatham	Education	Diana Baker	12:20 - 1:15	Geneva Room
Anderson , Emma	Anthropology	Jeffrey Anderson	3:00 - 3:55	Geneva Room
Anderson, Paige	Economics	Jennifer Tessendorf	10:10 - 11:05	Geneva Room
Andrzejczyk, Nicolette	Biology	Susan Cushman	9:05 - 10:00	Geneva Room
Azour, Talia	Sociology	Wesley Perkins	11:15 - 12:10	Learning Studio 1
Bentsi-Enchill, Ato	Centennial Center for Leadership	Solomé Rose	9:05 - 10:00	Learning Studio 1
Berry, Susannah	Centennial Center for Leadership	Solomé Rose	9:05 - 10:00	Learning Studio 1
Birkhofer, Michael	Economics	Felipe Rezende	8:00 - 8:55	Learning Studio 3
Bonnier, Tora	Music	Katherine Walker	11:15 - 12:10	Learning Studio 3
Bright, Sean	Economics	Felipe Rezende	10:10 - 11:05	Geneva Room

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Budmen, Peter	Education	Jim MaKinster	1:45 - 2:50	Geneva Room
Bugbee, Grace	Music	Katherine Walker	9:05 - 10:00	Geneva Room
Burke, Mary Kathleen	Economics	Scott McKinney	3:00 - 3:55	Sanford Room
Calder, Geneva	Public Policy	Craig Rimmerman	9:05 - 10:00	Learning Studio 1
Carrasco, Shantel	Psychology	Ron Gerrard	12:20 - 1:15	Sanford Room
Casey, Erin	American Studies	Beth Belanger	10:10 - 11:05	Geneva Room
Casey, Kevin	Sociology	Wesley Perkins	1:45 - 2:50	Learning Studio 1
Cohen, Samantha	Education	Diana Baker	4:05 - 5:00	Sanford Room
Connor, Caroline	Centennial Center for Leadership	Kaylyn O'Brien	4:05 - 5:00	Learning Studio 1
Craig, Kelly	English & Comparative Literature	Kathryn Cowles	11:15 - 12:10	Sanford Room
Cytryn, Jennifer	Economics	Felipe Rezende	12:20 - 1:15	Learning Studio 1
Daajneh, Mohammed	Economics	Felipe Rezende	8:00 - 8:55	Learning Studio 1
Dehler-Setzer, Ingrid	Dance	Donna Davenport	11:15 - 12:10	Learning Studio 1

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Derby, Aaron	Environmental Studies	Darrin Magee	3:00 - 3:55	Sanford Room
DeWees, Virginia	Education	Jim MaKinster	12:20 - 1:15	Geneva Room
Dirgins, Tim	Environmental Studies	Darrin Magee	8:00 - 8:55	Geneva Room
Drake, Morgan	Sociology	Wesley Perkins	12:20 - 1:15	Learning Studio 1
Drake, Morgan	Dance	Donna Davenport	4:05 - 5:00	Geneva Room
Facciponte, Dominic	Biology	Kristy Kenyon	9:05 - 10:00	Sanford Room
Falco, Anthony	Residential Education	Brandon Barile	12:20 - 1:15	Geneva Room
Feeman, Noah	Media & Society	Rebecca Burditt	11:15 - 12:10	Learning Studio 3
Feldesman, Emily	Education	Diana Baker	4:05 - 5:00	Sanford Room
Fischer, Rachel	Writing & Rhetoric	Maggie Werner	8:00 - 8:55	Sanford Room
Friedman, Sarah	Sociology	Wesley Perkins	11:15 - 12:10	Geneva Room
Friedman, Sarah	Education	Diana Baker	12:20 - 1:15	Geneva Room
Gatch, Alex	Biology	Meghan Brown	1:55 - 2:50	Sanford Room

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Giotto, Victor	American Studies	Beth Belanger	1:45 - 2:50	Learning Studio 1
Gitter, Joy	Sociology	Wesley Perkins	11:15 - 12:10	Geneva Room
Glatman, Rachel	Education	Diana Baker	12:20 - 1:15	Geneva Room
Goddard, Katrina	Environmental Studies	Darrin Magee	8:00 - 8:55	Learning Studio 1
Godfrey, William	Economics	Felipe Rezende	3:00 - 3:55	Geneva Room
Gomez, Michelle	Physics	Leslie Hebb	10:10 - 11:05	Learning Studio 3
Graves, Jessica	Anthropology	Brenda Maiale	8:00 - 8:55	Learning Studio 3
Gray-Bauer, Rosalind	Psychology	Jamie Bodenlos	1:55 - 2:50	Learning Studio 3
Guglielmino, Carmelo	Education	Diana Baker	12:20 - 1:15	Geneva Room
Gutierrez, Scarlyn	Sociology	Wesley Perkins	8:00 - 8:55	Sanford Room
Hallowell, Sam	Environmental Studies	Darrin Magee	8:00 - 8:55	Geneva Room
Halter, Sophie	Dance	Donna Davenport	12:20 - 1:15	Sanford Room
Hanno, Olivia	Psychology	Brien Ashdown	3:00 - 3:55	Learning Studio 1

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Hanson, Michael	Environmental Studies	Darrin Magee	3:00 - 3:55	Sanford Room
Hill, Katie	American Studies	Beth Belanger	3:00 - 3:55	Learning Studio 1
Hoden, Olivia	Sociology	Wesley Perkins	12:20 - 1:15	Learning Studio 1
Hoeller, Peter	Music	Katherine Walker	3:00 - 3:55	Learning Studio 1
Hoeller, Peter	Music	Charity Lofthouse	8:00 - 8:55	Geneva Room
Hofsiss, Philip	Environmental Studies	Darrin Magee	8:00 - 8:55	Learning Studio 1
Hong, San-Fan	Music	Katherine Walker	10:10 - 11:05	Geneva Room
Hopkins, Andrew	Economics	Felipe Rezende	10:10 - 11:05	Learning Studio 1
Hull, James	Physics	Donald Spector	4:05 - 5:00	Learning Studio 1
Jackson-Gibson, Zoe	Environmental Studies	Darrin Magee	8:00 - 8:55	Learning Studio 1
Janssen, Garrett	English	Vinita Prabhakar	11:15 - 12:10	Learning Studio 3
Janssen, Garrett	Economics	William Waller	3:00 - 3:55	Geneva Room
Kane, Andrew	Environmental Studies	Darrin Magee	1:45 - 2:50	Learning Studio 1

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Kaszubski, TJ	Environmental Studies	Darrin Magee	8:00 - 8:55	Geneva Room
Kaye, Dimitri	Sociology	Wesley Perkins	10:10 - 11:05	Learning Studio 1
Kertanis, Ryan	Environmental Studies	Darrin Magee	1:55 - 2:50	Sanford Room
Kilcullen, Alana	Education	Jim MaKinster	1:45 - 2:50	Geneva Room
Knorr, Elizabeth	Environmental Studies	Darrin Magee	1:45 - 2:50	Learning Studio 1
Langlois, Annie	Art & Architecture	Kirin Makker	8:00 - 8:55	Learning Studio 3
Lockwood, Schuyler	Chemistry	Josh Newby	8:00 - 8:55	Geneva Room
LoConte, Micaela	Music	Katherine Walker	3:00 - 3:55	Sanford Room
Lubick, Elias	Music	Charity Lofthouse	11:15 - 12:10	Learning Studio 3
Luborsky, Rebecca	Sociology	Ervin Kosta	10:10 - 11:05	Sanford Room
Lucker, Taran	Economics	Felipe Rezende	10:10 - 11:05	Learning Studio 1
Lunderman, Elizabeth	Environmental Studies	Darrin Magee	1:45 - 2:50	Learning Studio 1
MacDonnell, Sarah	Media & Society	Lester Friedman	10:10 - 11:05	Learning Studio 1

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Mason, Gabriella	Education	Jim MaKinster	1:45 - 2:50	Geneva Room
Mayer, Morgan	American Studies	Beth Belanger	9:05 - 10:00	Geneva Room
McArdle, Bryanne	Anthropology	Jeffrey Anderson	8:00 - 8:55	Learning Studio 3
McLaughlin, Erica	Sociology	Wesley Perkins	11:15 - 12:10	Sanford Room
Mendez, Kathryn	Environmental Studies	Darrin Magee	1:45 - 2:50	Learning Studio 1
Mendez, Kathryn	Biology	Meghan Brown	9:05 - 10:00	Sanford Room
Merolla, Domenic	Centennial Center for Leadership	Solomé Rose	9:05 - 10:00	Learning Studio 1
Moore, Colleen	Music	Katherine Walker	11:15 - 12:10	Learning Studio 1
Mueller, Danielle	Sociology	Wesley Perkins	11:15 - 12:10	Sanford Room
Mullaney, Ryan	Education	Khuram Hussain	1:45 - 2:50	Learning Studio 1
Mullaney, Ryan	Sociology	Wesley Perkins	11:15 - 12:10	Sanford Room
Napierala, Kendra	Education	Jim MaKinster	1:45 - 2:50	Geneva Room
Owes, Afrika	Sociology	Wesley Perkins	8:00 - 8:55	Sanford Room

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Owes, Afrika	Public Policy	Craig Rimmerman	3:00 - 3:55	Learning Studio 1
Palacios, Randy	Environmental Studies	Darrin Magee	8:00 - 8:55	Learning Studio 1
Pastor, Nicole	Economics	Felipe Rezende	12:20 - 1:15	Learning Studio 3
Pattison, Ian	Sociology	Wesley Perkins	12:20 - 1:15	Sanford Room
Pierce, Augustus	Environmental Studies	Darrin Magee	3:00 - 3:55	Sanford Room
Pressman, Edward	Art & Architecture	Kirin Makker	10:10 - 11:05	Learning Studio 3
Quinn, Alex	Economics	Felipe Rezende	8:00 - 8:55	Learning Studio 1
Rahling, Michael	Sociology	Wesley Perkins	9:05 - 10:00	Sanford Room
Reale, Joe	Centennial Center for Leadership	Amy Forbes	12:20 - 1:15	Learning Studio 1
Regner, Randy	Sociology	Wesley Perkins	9:05 - 10:00	Sanford Room
Ressel, Kristin	Psychology	Brien Ashdown	4:05 - 5:00	Geneva Room
Reynolds, Whitney	American Studies	Beth Belanger	1:55 - 2:50	Learning Studio 3
Rizza, Jeff	Environmental Studies	Robin Lewis	3:00 - 3:55	Learning Studio 3

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Saeli, Emily	Writing & Rhetoric	Hannah Dickinson	1:55 - 2:50	Learning Studio 3
Saeli, Emily	Writing & Rhetoric	Hannah Dickinson	11:15 - 12:10	Sanford Room
Sasse, Samantha	Psychology	Brien Ashdown	4:05 - 5:00	Sanford Room
Savard, Shannon	Education	Jim MaKinster	1:45 - 2:50	Geneva Room
Schavoir, Ana	Education	Jim MaKinster	1:45 - 2:50	Geneva Room
Schonning, Daniel	English	Geoffrey Babbitt	10:10 - 11:05	Learning Studio 3
Shank, Justine	Psychology	Daniel Graham	12:20 - 1:15	Learning Studio 3
Silliman, James	Music	Charity Lofthouse	12:20 - 1:15	Learning Studio 3
Silverman, Douglas	Sociology	Wesley Perkins & Ervin Kosta	10:10 - 11:15	Sanford Room
Sindoni, Dom	Environmental Studies	Darrin Magee	1:55 - 2:50	Sanford Room
Smith, Cassidy	Psychology	Brien Ashdown	11:15 - 12:10	Geneva Room
Sorrentino, Carmen	Sociology	Wesley Perkins	12:20 - 1:15	Learning Studio 1
Stern, Nikolai	Economics	Felipe Rezende	3:00 - 3:55	Learning Studio 3

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Strang, Kathryn	Psychology	Jamie Bodenlos	1:55 - 2:50	Learning Studio 3
Strano, Elizabeth	Dance	Donna Davenport	4:05 - 5:00	Sanford Room
Sweet, Taylor	Education	Diana Baker	4:05 - 5:00	Sanford Room
Theriault, Katherine	American Studies	Beth Belanger	9:05 - 10:00	Geneva Room
Tinklepaugh, Ryan	Environmental Studies	Darrin Magee	1:55 - 2:50	Sanford Room
Uhl, Andrea	American Studies	Beth Belanger	12:20 - 1:15	Learning Studio 3
Vitulano, Alexandra	Finger Lakes Institute	Lisa Cleckner	1:55 - 2:50	Sanford Room
Wagner, Karly	Sociology	Kendralin Freeman	1:55 - 2:50	Learning Studio 3
Wagner, Karly	Sociology	Ervin Kosta	10:10 - 11:05	Sanford Room
Walter, Lauren	Biology	Shannon Straub	3:00 - 3:55	Learning Studio 3
Walter, Tom	American Studies	Beth Belanger	8:00 - 8:55	Sanford Room
Ward, Spencer	Environmental Studies	Darrin Magee	3:00 - 3:55	Sanford Room
Wechsler, Emmett	Music	Charity Lofthouse	4:05 - 5:00	Learning Studio 1

SENIOR SYMPOSIUM 2016 PRESENTERS

Presenter	Department/Program	Sponsor	Panel Time	Room
Wilcox, Allison	Chemistry	Kristin Slade	3:00 - 3:55	Geneva Room
Williams, Dana	Sociology	Wesley Perkins	8:00 - 8:55	Sanford Room
Williams, Jack	American Studies	Beth Belanger	12:20 - 1:15	Sanford Room
Workman, Devyn	Education	Jim MaKinster	1:45 - 2:50	Geneva Room
Yochim, Kathryn	Education	Mary Kelly	4:05 - 5:00	Geneva Room
Young, Tim	Environmental Studies	Darrin Magee	1:55 - 2:50	Sanford Room

Senior
Symposium
2016
Schedule

Geneva Room

Time	Presenters	Abstract Title	Department/Program
Emergent Energy (<i>Moderator: Kristy Kenyon, Associate Professor of Biology</i>)			
8:00-8:55	Dirgins, Tim Hallowell, Sam Kaszubski, TJ	Three Unique Models Examining Carbon Dioxide Reduction for Electricity Generating Units in California	Environmental Studies
	Hoeller, Peter	Emerging Styles in Electronic Dance Music	Music
	Lockwood, Schuyler	Matrix Isolation and Theoretical Determination of Furan-Containing Clusters	Chemistry
	Questions & Answers		
Ladylike? (<i>Moderator: Hannah Dickinson, Assistant Professor of Writing and Rhetoric</i>)			
9:05-10:00	Andrzejczyk, Nicolette	Feminization of Blacknose Dace in the Seneca Lake Watershed	Biology
	Bugbee, Grace	The Subversive Power of the Female Voice: Vocal Textures, Sonic Imagery, Construction of Emotion, and the Use of Technology in the Music of Björk	Music
	Mayer, Morgan	Ford, Feminism, and the First Ladyship: How Betty Ford's Feminist Activities Won the Hearts of the American Public	American Studies
	Therriault, Katherine	Women in Comedy: The Rise and Notoriety of Amy Schumer	American Studies
	Questions & Answers		

Geneva Room

Time	Presenters	Abstract Title	Department/Program
It's About Food (<i>Moderator: Keoka Grayson, Assistant Professor of Economics</i>)			
10:10-11:05	Anderson, Paige	Hunger and Poverty: A Look at Food Insecurity in the United States	Economics
	Bright, Sean	Pensions and Pork Bellies: Implications of Capitalism's Evolution on Systemic Risk	Economics
	Casey, Erin	TV Dinner Politics: Family Structure Changes and Impact on American Politics	American Studies
	Hong, San-Fan	Coca-Colonization: Transformation of Pop Music and Commercials	Music
	Questions & Answers		
G-Town (<i>Moderator: Kevin Dunn, Professor of Political Science</i>)			
11:15-12:10	Aliquo, Stephanie Friedman, Sarah Gitter, Joy	Oh, the Places They'll Go! Surveying the Post-Graduation Plans of Geneva High School Seniors	Sociology
	Smith, Cassidy	Community Attitudes Surrounding Children's Mental Health: Social Capital, Socioeconomic Status and Parent Help-Seeking Behavior	Psychology
	Questions & Answers		

Geneva Room

Time	Presenters	Abstract Title	Department/Program
Education Essential (<i>Moderator: Jim MaKinster, Professor of Education</i>)			
12:20-1:15	Anastasi, Chatham Friedman, Sarah Glatman, Rachel Guglielmino, Carmelo	Dual Immersion Programs: Design and Experience of Instruction	Education
	DeWees, Virginia	Fostering Social Justice in U.S. Independent Schools through Culturally Relevant, Transformational Leadership	Education
	Falco, Anthony	Twin Cities R!se: A Research-Driven Student Perspective on Applied Emotional Intelligence	Residential Education
	Questions & Answers		
Education MATters (<i>Moderator: Jim MaKinster, Professor of Education</i>)			
1:45 - 2:50	Budmen, Peter Workman, Devyn	Putting a Microscope on Microaggressions: A Closer Look into Students' Experiences	Education
	Kilcullen, Alana Mason, Gabriella	The HWS Classroom through Student Eyes	Education
	Napierala, Kendra	Student and Faculty Perceptions Regarding Accommodations for Students with Disabilities	Education
	Savard, Shannon Schavoir, Ana	Who's At the Table: Race, Gender and Microaggressions in Saga and the Café	Education
	Questions & Answers		

Geneva Room

Time	Presenters	Abstract Title	Department/Program
Multitudes (<i>Moderator: Kristin Slade, Assistant Professor of Chemistry</i>)			
3:00-3:55	Anderson , Emma	AIP: How the Unhealable Heal	Anthropology
	Godfrey, William	Herd Behavior: Rationality and the 2008 Financial Crisis	Economics
	Janssen, Garrett	Conspicuous Emulation: The Theoretical Implications of the Prosumer Culture of Facebook and YouTube	Economics
	Wilcox, Allison	Using Macromolecular Crowding to Study Yeast Alcohol Dehydrogenase (YADH) Enzyme Mechanism	Chemistry
	Questions & Answers		
Education: Meaning, Method (<i>Moderator: May Farnsworth, Associate Professor of Spanish and Hispanic Studies</i>)			
4:05-5:00	Drake, Morgan	Embodied Learning through Movement Education as Child Advocacy	Dance
	Ressel, Kristin	The Effectiveness on Early Childhood Education of a Model Classroom in Guatemala	Psychology
	Yochim, Kathryn	Developing a Motor Skills Intervention for Children with Autism Spectrum Disorders	Education
	Questions & Answers		

Learning Studio 1

Time	Presenters	Abstract Title	Department/Program
What's the Plan? (Moderator: Joshua Newby, Assistant Professor of Chemistry)			
8:00-8:55	Daajneh, Mohammed	Islamic Banking and Conventional Banking: A Comparative Study	Economics
	Goddard, Katrina Hofsiss, Philip Jackson-Gibson, Zoe Palacios, Randy	Taking the "C" Out of Colorado: Reducing Carbon Emissions for Colorado's Electricity Sector	Environmental Studies
	Quinn, Alex	Preventing a Generation of Window Shoppers	Economics
	Questions & Answers		
Across the Border (Moderator: Solomé Rose, Global and Community Leadership Fellow)			
9:05-10:00	Bentsi-Enchill, Ato	The Black-White Achievement Gap: Two Countries So Different, yet So Similar	Centennial Center for Leadership
	Berry, Susannah	Peer to Peer Racism: U.S. and South Africa	Centennial Center for Leadership
	Calder, Geneva	Big, Bad Western Pride and Its Place in Influencing LGBT Rights in Latvia	Public Policy
	Merolla, Domenic	Racial Housing Justice in Atlanta, Cape Town, and Johannesburg	Centennial Center for Leadership
	Questions & Answers		

Learning Studio 1

Time	Presenters	Abstract Title	Department/Program
Again, Death and Taxes (<i>Moderator: Chip Capraro, Associate Dean of Hobart College</i>)			
10:10-11:05	Hopkins, Andrew	A Solution to Unemployment	Economics
	Kaye, Dimitri	Who Is Most Likely to Support a Tax Increase?	Sociology
	Lucker, Taran	The Failures and Resolutions of Bear Stearns and Lehman Brothers	Economics
	MacDonnell, Sarah	The Ghost of the Vietnam War and Its Lasting Impact on the American Psyche	Media and Society
	Questions & Answers		
Between Cultures (<i>Moderator: Audrey Roberson, Assistant Professor of Education</i>)			
11:15-12:10	Azour, Talia	Social Integration of International Students at Hobart and William Smith Colleges	Sociology
	Dehler-Setter, Ingrid	Cultural Identification through Modern Dance	Dance
	Moore, Colleen	Conflict Transformation and Music in the Israel-Palestine Conflict	Music
	Questions & Answers		

Learning Studio 1

Time	Presenters	Abstract Title	Department/Program
Community Function (<i>Moderator: Fay Botham, Visiting Assistant Professor of Religious Studies</i>)			
12:20-1:15	Cytryn, Jennifer	Main Street Meets Wall Street: Risky Behavior in the Housing Market	Economics
	Drake, Morgan Hoden, Olivia Sorrentino, Carmen	The Effect of Early Childhood Education on Mental and Physical Health of Children Ages 0-5 in Geneva, NY	Sociology
	Reale, Joe	Management vs. Leadership: Effective Methods	Centennial Center for Leadership
	Questions & Answers		
Power (<i>Moderator: Justin Rose, Assistant Professor of Political Science</i>)			
1:45 - 2:50	Casey, Kevin	How Do you Vote?	Sociology
	Giotto, Victor	Judicial Supremacy and Public Opinion	American Studies
	Kane, Andrew Knorr, Elizabeth Lunderman, Elizabeth Mendez, Kathryn	Examining Electricity Scenarios and Carbon Emissions in Washington State	Environmental Studies
	Mullaney, Ryan	Black Schools, White Cash: Howard Fuller and the Racial Politics of Neoliberal Educators	Education
	Questions & Answers		

Learning Studio 1

Time	Presenters	Abstract Title	Department/Program
With Reference to Sex (<i>Moderator: Melissa Autumn White, Assistant Professor of LGBT Studies</i>)			
3:00-3:55	Hanno, Olivia	Sex Education in Rural Highland Guatemala	Psychology
	Hill, Katie	“Nothing Comes Between Me and My Calvins”: Sex, Celebrity, and Youth in Contemporary American Advertising	American Studies
	Hoeller, Peter	The Philosophy of Punk	Music
	Owes, Afrika	Let's Talk About Sex: A Comparative Analysis of Sexual Education between the U.S. and South Africa	Public Policy
	Questions & Answers		
Tools (<i>Moderator: Alla Ivanchikova, Assistant Professor of English and Comparative Literature</i>)			
4:05-5:00	Ackbarali, Aaron	Unifying Math: The Atiyah-Singer Index Theorem	Mathematics
	Connor, Caroline	Context and Leadership: Pedagogical Tools for Teaching Leadership	Centennial Center for Leadership
	Hull, James	Counter-Terrorism by Counting Terrorism	Physics
	Wechsler, Emmett	Tool: Escaping the Spectacle, Maintaining the Spotlight	Music
	Questions & Answers		

Learning Studio 3

Time	Presenters	Abstract Title	Department/Program
What Works? (<i>Moderator: Leah Shafer, Assistant Professor of Media and Society</i>)			
8:00-8:55	Birkhofer, Michael	Correlation between the Rise of Money-Manager Capitalism and the Return of Big Government	Economics
	Graves, Jessica	Salir Adelante: A Study of Peruvian Migration and the Immigrant Experience	Anthropology
	Langlois, Annie	Interventions on Isola Tiberina	Art and Architecture
	McArdle, Bryanne	Ethnography of Roommate Culture at HWS	Anthropology
	Questions & Answers		
Time and Perspective (<i>Moderator: Rob Carson, Associate Professor of English</i>)			
10:10-11:05	Abramov, Nora	The Role of Securitization and the Subprime Mortgage Crisis	Economics
	Gomez , Michelle	Starspot Crossing Transits in Long-Cadence Kepler Data: A Search for Correlations between Starspots and Stellar Properties	Physics
	Pressman, Edward	Rethinking the Automobile for 2016: Potential through Design	Art and Architecture
	Schonning, Daniel	A Ruined Stairway in Snow	English
	Questions & Answers		

Learning Studio 3

Time	Presenters	Abstract Title	Department/Program
Soundscape (<i>Moderator: Jennifer Tessororf, Instructor of Economics</i>)			
11:15-12:10	Bonnier, Tora	From Asocial to World Creation: How Video Games Encourage Musical Participation in a Global Community	Music
	Feeman, Noah	Musical Interdiegesis: Soundscape and Leitmotif in Narrative Video Games	Media and Society
	Janssen, Garrett	The Art of Being Creative	English
	Lubick, Elias	The Limits of Neo-Riemannian Theory in Analyzing Pop Music	Music
	Questions & Answers		
Exposure (<i>Moderator: Rebecca Burditt, Assistant Professor of Media and Society</i>)			
12:20-1:15	Pastor, Nicole	The Fed's Dirty Laundry: Ethics and the Aftermath of 2008	Economics
	Shank, Justine	Learning to Lie: Becoming a Human Lie Detector	Psychology
	Silliman, James	What Will You Choose? The Deception of Freedom in Consumer Culture	Music
	Uhl, Andrea	Michael Brown and the Ferguson Unrest in Local Media	American Studies
	Questions & Answers		

Learning Studio 3

Time	Presenters	Abstract Title	Department/Program
Questions of Gender (<i>Moderator: Brien Ashdown, Assistant Professor of Psychology</i>)			
1:55 - 2:50	Gray-Bauer, Rosalind Strang, Kathryn	Gender and Mindfulness-Based Trials	Psychology
	Reynolds, Whitney	Disney Movies, Women's Gender Roles, and Effects on Children	American Studies
	Saeli, Emily	Hide yo' Kids, Hide yo' Wife: The Rhetoric of Privacy, Safety, and the Electronic Frontier Foundation's Inclusion of Women in Discussions of Their Own Online Rights	Writing and Rhetoric
	Wagner, Karly	Gender and Race on Display: The Production of Culture in Museum Exhibits	Sociology
	Questions & Answers		
Vegetare (<i>Moderator: Robin Lewis, Assistant Professor of Environmental Studies</i>)			
3:00-3:55	Rizza, Jeff	Aquaponics for Hyper-Local Sustainable Food Production: Social, Commercial, and Educational Applications	Environmental Studies
	Stern, Nikolai	Tulips, Tall Ships, Websites, Houses, and Oil: Tracing Financial Bubbles Since 1636	Economics
	Walter, Lauren	Comparative Genomic Analysis of Apocynaceae Plastomes	Biology
	Questions & Answers		

Sanford Room

Time	Presenters	Abstract Title	Department/Program
Talk the Talk (<i>Moderator: Matt Crow, Assistant Professor of History</i>)			
8:00-8:55	Fischer, Rachel	The Politicization of Abortion: The Power of Rhetoric	Writing and Rhetoric
	Gutierrez, Scarlyn Owes, Afrika Williams, Dana	Having “The Talk”: Understanding the Knowledge of Consent among the Youth of Inner City Rochester	Sociology
	Walter, Tom	FDR’s Fireside Chats as Dialogue with the People	American Studies
	Questions & Answers		
Measure Twice, Cut Once (<i>Moderator: Meghan Brown, Associate Professor of Biology</i>)			
9:05-10:00	Facciponte, Dominic	Does Prenatal Exposure to the Obesogen Tributyltin Contribute to Type-II Diabetes Mellitus?	Biology
	Mendez, Kathryn	eDNA and the Bloody Red Shrimp: Investigating Alternative Methods for Detecting Aquatic Species	Biology
	Rahling, Michael Regner, Randy	Measuring Preparedness for School of Children Aged 0-5 in Geneva, NY	Sociology
	Questions & Answers		

Sanford Room

Time	Presenters	Abstract Title	Department/Program
The Urban Episode (<i>Moderator: Ervin Kosta, Assistant Professor of Sociology</i>)			
10:10-11:05	Luborsky, Rebecca	Metropolitan Geneva: A Case Study of Linden Street	Sociology
	Silverman, Douglas	Mapping Patrons in Downtown Geneva	Sociology
	Wagner, Karly	Global Cities: How Linden Street Has Adapted to a Changing Global Market	Sociology
	Questions & Answers		
The Place Where You Are (<i>Moderator: Jason Rodriguez, Assistant Professor of Anthropology</i>)			
11:15-12:10	Craig, Kelly	What Happens Here Stays Here: A Study of Sense of Place and Identity in Las Vegas Literature	English and Comparative Literature
	McLaughlin, Erica Mueller, Danielle Mullaney, Ryan	Looking Back, Moving Forward: <i>Revamping Success for Geneva's Children</i>	Sociology
	Saeli, Emily	GLHF: A Cultural Analysis of Access in League of Legends	Writing and Rhetoric
	Questions & Answers		

Sanford Room

Time	Presenters	Abstract Title	Department/Program
Crime and Impact (<i>Moderator: Stephen Cope, Assistant Professor of English</i>)			
12:20-1:15	Carrasco, Shantel	Brain Abnormalities and Criminal Behavior	Psychology
	Halter, Sophie	Parental Imprisonment: Effects on Children and Families in the United States	Dance
	Pattison, Ian	Assessing Differences between Local and Federal Crime Data	Sociology
	Williams, Jack	Mass incarceration and the Media: Analyzing the Prison-Industrial Complex in California	American Studies
	Questions & Answers		
State of the State (<i>Moderator: Nick Metz, Assistant Professor of Geoscience</i>)			
1:55 - 2:50	Gatch, Alex	Age and Size as Predictors of Mercury Accumulation in Lake Trout from the Finger Lakes	Biology
	Kertanis, Ryan Sindoni, Dom Tinklepaugh, Ryan Young, Tim	Re-invisioning REV: A Comprehensive Look at New York State's Electric Power Generation	Environmental Studies
	Vitulano, Alexandra	Seneca Meadows Air Quality Monitoring Project	Finger Lakes Institute
	Questions & Answers		

Sanford Room

Time	Presenters	Abstract Title	Department/Program
Commodities (<i>Moderator: Charity Lofthouse, Assistant Professor of Music</i>)			
3:00-3:55	Burke, Mary Kathleen	Reversing the Resource Curse: The Future of Latin American Economies	Economics
	Derby, Aaron Hanson, Michael Pierce, Augustus Ward, Spencer	Texas: Three Scenarios for a Cleaner Energy Future	Environmental Studies
	LoConte, Micaela	Radiohead: Band or Brand?	Music
	Questions & Answers		
Honoring Identity (<i>Moderator: Chris Annear, Assistant Professor of Anthropology</i>)			
4:05-5:00	Cohen, Samantha Feldesman, Emily Sweet, Taylor	Dual Immersion Programs: Participation and Engagement	Education
	Sasse, Samantha	How Do Intersecting Identities Influence Our Perception of Gender Roles?	Psychology
	Strano, Elizabeth	Honoring the Origins of Hip-Hop in Contemporary Practice	Dance
	Questions & Answers		

Senior
Symposium
2016
Abstracts

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Abramov, Nora	The Role of Securitization and the Subprime Mortgage Crisis	1
Ackbarali, Aaron	Unifying Math: The Atiyah-Singer Index Theorem	2
Aliquo, Stephanie	Oh, the Places They'll Go! Surveying the Post-Graduation Plans of Geneva High School Seniors	3
Anastasi, Chatham	Dual Immersion Programs: Design and Experience of Instruction	4
Anderson , Emma	AIP: How the Unhealable Heal	5
Anderson, Paige	Hunger and Poverty: A Look at Food Insecurity in the United States	6
Andrzejczyk, Nicolette	Feminization of Blacknose Dace in the Seneca Lake Watershed	7
Azour, Talia	Social Integration of International Students at Hobart and William Smith Colleges	8
Bentsi-Enchill, Ato	The Black-White Achievement Gap: Two Countries So Different, yet So Similar	9
Berry, Susannah	Peer to Peer Racism: U.S. and South Africa	10
Birkhofer, Michael	Correlation between the Rise of Money-Manager Capitalism and the Return of Big Government	11
Bonnier, Tora	From Asocial to World Creation: How Video Games Encourage Musical Participation in a Global Community	12
Bright, Sean	Pensions and Pork Bellies: Implications of Capitalism's Evolution on Systemic Risk	13

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Budmen, Peter	Putting a Microscope on Microaggressions: A Closer Look into Students' Experiences	14
Bugbee, Grace	The Subversive Power of the Female Voice: Vocal Textures, Sonic Imagery, Construction of Emotion, and the Use of Technology in the Music of Björk	15
Burke, Mary Kathleen	Reversing the Resource Curse: The Future of Latin American Economies	16
Calder, Geneva	Big, Bad Western Pride and Its Place in Influencing LGBT Rights in Latvia	17
Carrasco, Shantel	Brain Abnormalities and Criminal Behavior	18
Casey, Erin	TV Dinner Politics: Family Structure Changes and Impact on American Politics	19
Casey, Kevin	How Do you Vote?	20
Cohen, Samantha	Dual Immersion Programs: Participation and Engagement	21
Connor, Caroline	Context and Leadership: Pedagogical Tools for Teaching Leadership	22
Craig, Kelly	What Happens Here Stays Here: A Study of Sense of Place and Identity in Las Vegas Literature	23
Cytryn, Jennifer	Risky Behavior: When Main Street Meets Wall Street	24
Daajneh, Mohammed	Islamic Banking and Conventional Banking: A Comparative Study	25
Dehler-Setzer, Ingrid	Cultural Identification through Modern Dance	26

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Derby, Aaron	Texas: Three Scenarios for a Cleaner Energy Future	27
DeWees, Virginia	Fostering Social Justice in U.S. Independent Schools through Culturally Relevant, Transformational Leadership	28
Dirgins, Tim	Three Unique Models Examining Carbon Dioxide Reduction for Electricity Generating Units in California	29
Drake, Morgan	Embodied Learning through Movement Education as Child Advocacy	30
Drake, Morgan	The Effect of Early Childhood Education on Mental and Physical Health of Children Ages 0-5 in Geneva, NY	31
Facciponte, Dominic	Does Prenatal Exposure to the Obesogen Tributyltin Contribute to Type-II Diabetes Mellitus?	32
Falco, Anthony	Twin Cities Rise: A Research-Driven Student Perspective on Applied Emotional Intelligence	33
Feeman, Noah	Musical Interdiegesis: Soundscape and Leitmotif in Narrative Video Games	34
Feldesman, Emily	Dual Immersion Programs: Participation and Engagement	21
Fischer, Rachel	The Politicization of Abortion: The Power of Rhetoric	35
Friedman, Sarah	Dual Immersion Programs: Design and Experience of Instruction	4
Friedman, Sarah	Oh, the Places They'll Go! Surveying the Post-Graduation Plans of Geneva High School Seniors	3
Gatch, Alex	Age and Size as Predictors of Mercury Accumulation in Lake Trout from the Finger Lakes	36

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Giotto, Victor	Judicial Supremacy and Public Opinion	37
Gitter, Joy	Oh, the Places They'll Go! Surveying the Post-Graduation Plans of Geneva High School Seniors	3
Glatman, Rachel	Dual Immersion Programs: Design and Experience of Instruction	4
Goddard, Katrina	Taking the "C" Out of Colorado: Reducing Carbon Emissions for Colorado's Electricity Sector	38
Godfrey, William	Herd Behavior: Rationality and the 2008 Financial Crisis	39
Gomez, Michelle	Starspot Crossing Transits in Long-Cadence Kepler Data: A Search for Correlations between Starspots and Stellar Properties	40
Graves, Jessica	Salir Adelante: A Study of Peruvian Migration and the Immigrant Experience	41
Gray-Bauer, Rosalind	Gender and Mindfulness-Based Trials	42
Guglielmino, Carmelo	Dual Immersion Programs: Design and Experience of Instruction	4
Gutierrez, Scarlyn	Having "The Talk": Understanding the Knowledge of Consent among the Youth of Inner City Rochester	43
Hallowell, Sam	Three Unique Models Examining Carbon Dioxide Reduction for Electricity Generating Units in California	29
Halter, Sophie	Parental Imprisonment: Effects on Children and Families in the United States	44
Hanno, Olivia	Sex Education in Rural Highland Guatemala	45

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Hanson, Michael	Texas: Three Scenarios for a Cleaner Energy Future	27
Hill, Katie	“Nothing Comes Between Me and My Calvins”: Sex, Celebrity, and Youth in Contemporary American Advertising	46
Hoden, Olivia	The Effect of Early Childhood Education on Mental and Physical Health of Children Ages 0-5 in Geneva, NY	31
Hoeller, Peter	Emerging Genres in Electronic Dance Music	47
Hoeller, Peter	The Philosophy of Punk	48
Hofsiss, Philip	Taking the "C" Out of Colorado: Reducing Carbon Emissions for Colorado's Electricity Sector	38
Hong, San-Fan	Coca-Colonization: Transformation of Pop Music and Commercials	49
Hopkins, Andrew	A Solution to Unemployment	50
Hull, James	Counter-Terrorism by Counting Terrorism	51
Jackson-Gibson, Zoe	Taking the "C" Out of Colorado: Reducing Carbon Emissions for Colorado's Electricity Sector	38
Janssen, Garrett	The Art of Being Creative	53
Janssen, Garrett	Conspicuous Emulation: The Theoretical Implications of the Prosumer Culture of Facebook and YouTube	52
Kane, Andrew	Electricity Scenarios and Carbon Emissions in Washington State	54

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Kaszubski, TJ	Three Unique Models Examining Carbon Dioxide Reduction for Electricity Generating Units in California	29
Kaye, Dimitri	Who Is Most Likely to Support a Tax Increase?	55
Kertanis, Ryan	Re-invisioning REV: A Comprehensive Look at New York State's Electric Power Generation	56
Kilcullen, Alana	The HWS Classroom through Student Eyes: Gender Composition of Courses and Microaggression Potential	57
Knorr, Elizabeth	Electricity Scenarios and Carbon Emissions in Washington State	54
Langlois, Annie	Interventions on Isola Tiberina	58
Lockwood, Schuyler	Matrix Isolation and Theoretical Determination of Furan-Containing Clusters	59
LoConte, Micaela	Radiohead: Band or Brand?	60
Lubick, Elias	The Limits of Neo-Riemannian Theory in Analyzing Pop Music	61
Luborsky, Rebecca	Metropolitan Geneva: A Case Study of Linden Street	62
Lucker, Taran	The Failures and Resolutions of Bear Stearns and Lehman Brothers	63
Lunderman, Elizabeth	Electricity Scenarios and Carbon Emissions in Washington State	54
MacDonnell, Sarah	The Ghost of the Vietnam War and Its Lasting Impact on the American Psyche	64

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Mason, Gabriella	The HWS Classroom through Student Eyes: Gender Composition of Courses and Microaggression Potential	57
Mayer, Morgan	Ford, Feminism, and the First Ladyship: How Betty Ford's Feminist Activities Won the Hearts of the American Public	65
McArdle, Bryanne	Ethnography of Roommate Culture at HWS	66
McLaughlin, Erica	Looking Back, Moving Forward: Revamping <i>Success for Geneva's Children</i>	67
Mendez, Kathryn	Examining Electricity Scenarios and Carbon Emissions in Washington State	54
Mendez, Kathryn	eDNA and the Bloody Red Shrimp: Investigating Alternative Methods for Detecting Aquatic Species	68
Merolla, Domenic	Racial Housing Justice in Atlanta, Cape Town, and Johannesburg	69
Moore, Colleen	Conflict Transformation and Music in the Israel-Palestine Conflict	70
Mueller, Danielle	Looking Back, Moving Forward: Revamping <i>Success for Geneva's Children</i>	67
Mullaney, Ryan	Looking Back, Moving Forward: Revamping <i>Success for Geneva's Children</i>	67
Mullaney, Ryan	Black Schools, White Cash: Howard Fuller and the Racial Politics of Neoliberal Educators	71
Napierala, Kendra	Student and Faculty Perceptions Regarding Accommodations for Students with Disabilities	72
Owes, Afrika	Having "The Talk": Understanding the Knowledge of Consent among the Youth of Inner City Rochester	43

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Owes, Afrika	Let's Talk About Sex: A Comparative Analysis of Sexual Education between the U.S. and South Africa	73
Palacios, Randy	Taking the "C" Out of Colorado: Reducing Carbon Emissions for Colorado's Electricity Sector	38
Pastor, Nicole	The Fed's Dirty Laundry: Ethics and the Aftermath of 2008	74
Pattison, Ian	Assessing Differences between Local and Federal Crime Data	75
Pierce, Augustus	Texas: Three Scenarios for a Cleaner Energy Future	27
Pressman, Edward	Rethinking the Automobile for 2016: Potential through Design	76
Quinn, Alex	Preventing a Generation of Window Shoppers	77
Rahling, Michael	Measuring Preparedness for School of Children Aged 0-5 in Geneva, NY	78
Reale, Joe	Management vs. Leadership: Effective Methods	79
Regner, Randy	Measuring Preparedness for School of Children Aged 0-5 in Geneva, NY	78
Ressel, Kristin	The Effectiveness on Early Childhood Education of a Model Classroom in Guatemala	80
Reynolds, Whitney	Disney Movies, Women's Gender Roles, and Effects on Children	81
Rizza, Jeff	Aquaponics for Hyper-Local Sustainable Food Production: Social, Commercial, and Educational Applications	82

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Saeli, Emily	Hide yo' Kids, Hide yo' Wife: The Rhetoric of Privacy, Safety, and the Electronic Frontier Foundation's Inclusion of Women in Discussions of Their Own Online Rights	84
Saeli, Emily	GLHF: A Cultural Analysis of Access in League of Legends	83
Sasse, Samantha	How Do Intersecting Identities Influence Our Perception of Gender Roles?	85
Savard, Shannon	Who's At the Table: Race, Gender and Microaggressions in Saga and the Café	86
Schavoir, Ana	Who's At the Table: Race, Gender and Microaggressions in Saga and the Café	86
Schonning, Daniel	A Ruined Stairway in Snow	87
Shank, Justine	Learning to Lie: Becoming a Human Lie Detector	88
Silliman, James	What Will You Choose? The Deception of Freedom in Consumer Culture	89
Silverman, Douglas	Mapping Patrons in Downtown Geneva	90
Sindoni, Dom	Re-invisioning REV: A Comprehensive Look at New York State's Electric Power Generation	56
Smith, Cassidy	Social Capital, Socioeconomic Status and Parent Help-Seeking Behavior	91
Sorrentino, Carmen	The Effect of Early Childhood Education on Mental and Physical Health of Children Ages 0-5 in Geneva, NY	31
Stern, Nikolai	Tulips, Tall Ships, Websites, Houses, and Oil: Tracing Financial Bubbles Since 1636	92

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Strang, Kathryn	Gender and Mindfulness-Based Trials	42
Strano, Elizabeth	Honoring the Origins of Hip-Hop in Contemporary Practice	93
Sweet, Taylor	Dual Immersion Programs: Participation and Engagement	21
Therriault, Katherine	Women in Comedy: The Rise and Notoriety of Amy Schumer	94
Tinklepaugh, Ryan	Re-invisioning REV: A Comprehensive Look at New York State's Electric Power Generation	56
Uhl, Andrea	Michael Brown and the Ferguson Unrest in Local Media	95
Vitulano, Alexandra	Seneca Meadows Air Quality Monitoring Project	96
Wagner, Karly	Gender and Race on Display: The Production of Culture in Museum Exhibits	97
Wagner, Karly	Global Cities: How Linden Street Has Adapted to a Changing Global Market	98
Walter, Lauren	Comparative Genomic Analysis of Apocynaceae Plastomes	99
Walter, Tom	FDR's Fireside Chats as Dialogue with the People	100
Ward, Spencer	Texas: Three Scenarios for a Cleaner Energy Future	27
Wechsler, Emmett	Tool: Escaping the Spectacle, Maintaining the Spotlight	101

TABLE OF CONTENTS

Presenter	Abstract Title	Page
Wilcox, Allison	Using Macromolecular Crowding to Study Yeast Alcohol Dehydrogenase (YADH) Enzyme Mechanism	102
Williams, Dana	Having “The Talk”: Understanding the Knowledge of Consent among the Youth of Inner City Rochester	43
Williams, Jack	Mass Incarceration and the Media: Analyzing the Prison-Industrial Complex in California	103
Workman, Devyn	Putting a Microscope on Microaggressions: A Closer Look into Students’ Experiences	14
Yochim, Kathryn	Developing a Motor Skills Intervention for Children with Autism Spectrum Disorders	104
Young, Tim	Re-invisioning REV: A Comprehensive Look at New York State’s Electric Power Generation	56

THE ROLE OF SECURITIZATION AND THE SUBPRIME MORTGAGE CRISIS

Nora Abramov

My project seeks to discuss and analyze the process of securitization and the effects it had on the subprime mortgage crisis, which played a large role in the 2007-08 global financial crisis. In basic terms, securitization is the process of taking an illiquid asset or group of assets and transforming them into a security. A typical example of securitization is a mortgage-backed security (MBS), which is a type of asset-backed security that is secured by a variety of mortgages.

I will be referencing and discussing Minsky's theory of money manager capitalism, which refers to a type of economy where the capitalist's decision-making dominates the market for savings and investment.

The effects of the Global Financial Crisis were substantial—unemployment rose significantly and the consequences were prevalent around the world. For these reasons, I believe it is critical to discuss the roots of the crisis, which is where securitization and subprime mortgages come in. My interest in this project stems from my coursework and research conducted in various Economic classes, including Micro- and Macroeconomics, and Current Issues in Macroeconomics.

UNIFYING MATH: THE ATIYAH-SINGER INDEX THEOREM

Aaron Ackbarali

Algebraic topology is the study of shapes by looking at their algebraic properties. Analytic number theory is the study of numbers by using calculus-like tools. The Atiyah-Singer index theorem unites topology and analysis in a fundamental way; however, some exotic shapes are left out of this unification, namely fractals. The goal of this project is to produce a thoughtful exposition on the K-theoretic proof of the Atiyah-Singer index theorem and then begin to develop the necessary machinery to extend this theorem to fractals. This problem of extension is particularly challenging for fractals since measure theory is used to characterize them, but measures do not have the same natural properties of differential forms, which is the characterizing tool of objects captured by the Atiyah-Singer theorem. This is ongoing research for my Honors project in Math.

OH, THE PLACES THEY'LL GO!:
POST-GRADUATION PLANS OF GENEVA HIGH SCHOOL SENIORS

Steph Aliquo, Sarah Friedman, and Joy Gitter

Within a developing focus on increasing college readiness and attendance across the country and in Geneva, we are interested in the college preparatory activities and post-graduation plans of Geneva High School seniors. We are investigating the post-graduation plans of Geneva High School seniors, as well as the steps they have taken to prepare for their future, exploring the relationship between home-life and peer network values and post-graduation plans as well as students' individual preparation for post-graduate life. We hypothesize that students who are more exposed to colleges and who partake in college preparatory activities are more likely to apply to a four-year college than those who are not exposed to colleges or who do not partake in preparatory activities. We also hypothesize that students whose home life and peer network focus on educational attainment are more likely to plan on attending a four-year college.

Interest in this research topic arose from previous work in college readiness programs for high-school students, as well as Geneva 2020's need to obtain this information. Geneva 2020 is a community-based initiative whose goals are to improve students' literacy rates, career or college readiness, and graduation rates. One observed need mentioned by Geneva 2020 representatives was to create a survey that could be used by Geneva High School every year to gather data on the out-going senior class. Due to overlapping interests concerning this research project, we partnered with the Geneva 2020 organization and the Geneva High School Counseling Office to survey approximately 180 Geneva High School 12th graders.

DUAL-IMMERSION PROGRAMS: DESIGN AND EXPERIENCE OF INSTRUCTION

Chatham Anastasi, Sarah Friedman, Rachel Glatman, and Carmelo Guiglielmino

Dual-immersion programs—programs that integrate two languages, one majority language and one minority language, into content instruction—have been of growing interest in schools around the United States. These programs have the benefit of allowing students from different cultural and linguistic backgrounds to interact, and aim to produce students who are bilingual, bicultural, and biliterate.

Our projects for our Research in Education seminar each examine a dual-immersion program in Geneva, NY. The program uses a 50/50 model for content instruction, with English language instruction given for the first half of the day, and Spanish instruction for the second half of the day. Our projects focus on design and experience of instruction, looking at how culture is incorporated into the curriculum and how a culturally-centered school environment impacts student comfort; how dual-immersion impacts peer relations across cultures; what adjustments teachers make when moving between students' dominant and non-dominant language; and at differences in learning gains. Research methods include direct analysis of student work, classroom observations, interviews, focus groups, and surveys. Our results will be disseminated among school district administrators and teachers to aid in programmatic decisions.

AIP: HOW THE UNHEALABLE HEAL

Emma Anderson

What is it like to live with an autoimmune disease? How does an online/social media community shape that experience? This project focuses on the global Autoimmune Paleo (AIP) online/social media community. This community consists of individuals who have been diagnosed with autoimmune diseases who follow a specific anti-inflammatory diet along with clinical (and many times functional) medical treatment. This protocol reaches beyond just a diet and has formed lifestyle practices that members follow.

Through interacting within the community, analyzing surveys, and conducting interviews with members, I have written an ethnography of the AIP community. I document members' paths to diagnosis, often immersed in uncertainty, and on-going journeys with healing. I answer questions such as "What it is like to live with an autoimmune disease?" and "How people come to find the AIP community?" and "What the structure of the community looks like, what makes an online space a 'healing' community?"

I conclude with a reflection on unresolved issues. The number of Americans with autoimmune diseases is rising, yet many members of the AIP community encountered struggles with our current health care system due to the ambiguous nature of the disease and the cost of needed medical testing. I offer the conclusions of those who live with autoimmune conditions in order to highlight what needs to function better when it comes to the diagnosis and treatment of autoimmune disease.

HUNGER AND POVERTY: A LOOK AT US FOOD INSECURITY

Paige Anderson

What does hunger look like? What does poverty look like? My project for Honors in Anthropology explores this question within the context of the United States. I focus on how this question is often looked at much differently in the United States and I strived to make it more readily understood in a local context.

My interest in this project stems from my previous coursework in the Beyond Borders program, which focused on the UN's Millennium Development Goals and actively compared policy work in the United States and South Africa. Additionally, the Economics class Poverty and Wealthfare piqued my interest in the topic of hunger and implications of poverty within the United States. Much of my research is done through an economic lens and uses economic analysis as a method to convey my findings.

My topic takes an idea that has a global connotation and connects it to local setting. I have looked at government database facts and figures from the Geneva area in order to display the real life implications of hunger in the United States. I also plan to interview local organizations to better understand the scope of hunger and poverty within Geneva. Although the appearance of poverty and hunger may not be the same as in lesser-developed countries, there are ways to make improvements to a problem that plagues many individuals each day.

FEMINIZATION OF BLACKNOSE DACE IN THE SENECA LAKE WATERSHED

Nicolette Andrzejczyk

This project focused on the potential effects of endocrine disruptors on blacknose dace (*Rhinichthys atratulus*) in the Seneca Lake watershed. Endocrine disruptors are compounds that prevent regular function of the endocrine system, resulting in elevated hormone levels and changes in the reproductive system. In fish, these compounds have shown to result in intersexuality, feminization, and reduction of gonad size. In certain cases, these alterations have caused declines in fish populations. Examples of these endocrine disruptors include estrogenic pharmaceuticals in wastewater treatment plant effluent, certain agricultural pesticides, certain industrial waste, and others. Most of these endocrine disruptors enter aquatic environments through surface runoff or, in the case of wastewater treatment plant effluent, from a point-source.

Through this study for Honors in Biology, the level of feminization in male fish due exposure to endocrine disruptors was determined through histological analysis of the gonads. In order to capture the potential effects of landuse on endocrine disruptor loading, three very different Seneca Lake tributaries have been chosen for collection of fish: Castle Creek (highly urban), Big Stream (highly agricultural), and Glen Eldridge (highly forested). This study may provide new insight on the health of aquatic ecosystems in the region, as there have been no studies on endocrine disruptor presence in the Finger Lakes.

SOCIAL INTEGRATION OF INTERNATIONAL STUDENTS
AT HOBART AND WILLIAM SMITH COLLEGES

Talia Azour

My research explores the social integration of international students into the larger student population at HWS. I will explore how international students identify their place on campus and where they make connections with American students on campus. To answer these questions, I conducted a 5-10 minute survey created on an online forum called Survey Monkey. I sent the survey to all international students on campus via email link.

I hope to discover how and where international students integrate into the larger student body, what factors encourage integration, and how these factors lead to the creation of identity on campus. This research will inform the HWS institution about factors on campus that are more inclusive to international students and others that are not. Findings may also assist the institution in creating opportunities that were not previously available for international students.

THE BLACK-WHITE ACHIEVEMENT GAP: TWO COUNTRIES SO DIFFERENT, YET SO SIMILAR

Ato Bentsi-Enchill

For my Beyond Borders class, I chose to explore the disparities that lead to whites performing better on standardized testing than blacks, in both the United States and in South Africa. I will further analyze the long-term effects on this gap on both communities and the country at large.

The achievement gap between whites and blacks in the United States has been a source of concern for many educators and policy makers; the typical black American student scores 75% less than it's white counterpart.¹ In assessing the mathematics and reading test results of black and white public school students, the National Assessment of Education Progress (NAEP) concludes that white students have overall higher scores than black students on all assessments.² In examining the South and Eastern Africa Consortium for Monitoring Education Quality – a national assessment that measured reading performance of students in Grade 6 in South Africa – Nic Spaull argues that the white minority of students in South Africa that attend well-functioning and properly funded schools tend to perform above average and, outperform the remaining 75% majority of primarily black students who attend low income schools.³

A comprehensive analysis of both countries will show that a shared history of black oppression has created an evident similarity in the education sector. I will consider the ways in which both countries have planned to narrow the achievement gap in mathematics and reading in both countries. Are these strategies commonplace throughout both countries and are the effects beginning to be seen?

¹ Jencks, Christopher, "The Black-White Test Score Gap" (1)

² <http://nces.ed.gov/nationsreportcard/pubs/studies/2009455.aspx>

³ Spaull, N. (2013). Poverty & privilege: Primary school inequality in South Africa. *International Journal of Educational Development*, 33, 436-447. doi: 10.1016/j.ijedudev.2012.09.009

PEER TO PEER RACISM: U.S. AND SOUTH AFRICA

Susannah Berry

I am enrolled in a class entitled *Beyond Borders* with the Centennial Center for Leadership. We work with Stellenbosch University in the western cape of South Africa. Our goal is to support and nurture mutual understanding of issues faced in both countries in a way that helps us to understand how interconnected we are. In colleges and universities in both the United States and South Africa, black students have experienced racism at the hands of their white counterparts. While introducing integration into education at a young age may help to dismantle stereotypes, I am researching steps that can be taken on college campuses to address hard-to-break-down stereotypes. More than conversation is needed on college campuses. Classes, mentoring, and service-learning opportunities are a way for students to learn first-hand about different cultures and backgrounds as well as develop respect for each other.

My main findings are that systematic and institutional racism is part of the reason that preconceived notions around race exist. Racism experienced by students of color affects their mental health and social connections to their peers. For this reason, college and universities need to promote mentorships, counseling, and service-learning opportunities where students of color can feel supported and appreciated.

THE RISE OF MONEY-MANAGER CAPITALISM AND THE RETURN OF BIG GOVERNMENT

Michael Birkhofer

Following World War II, the financial industry experienced mass amounts of deregulation which allowed for the rise of Money Manager Capitalism. The rise of Money Manager Capitalism, “is characterized by the rise of a predatory state, the disengagement of the government, the return of a pro-market mentality, and a growing role of financial markets in determining economic outcomes”¹. After the 2007-2008 Global Economic Crisis, it became evident that the rise of Money Manager Capitalism transformed the United States Economy from its robust structure and into its current fragile state. In response to this economic crisis, the United States Government implemented policies combating Money Manager Capitalism in an effort to fundamentally change the economy’s structure. These policies promoted big government as an effective recovery method for the United States Economy, and as an effective prevention method for future financial crises.

This project will explore three questions: “How the deregulation of the finance industry led to the rise of Money Manager Capitalism?”, “What role did Money Manager Capitalism play in the 2007-2008 Economic Crisis?” and “How can the return to big government effectively stabilize the United States Economy after the 2007-2008 Global Economic Crisis?” FDIC Reports, New York Federal Reserve Reports and the works of economists such as Hyman P. Minsky, L. Randall Wray and Jan Kregel will be utilized in order to answer these questions regarding our economy’s past and future.

¹ Eric Tymoigne and L. Randall Wray, *The Rise and Fall of Money Manager Capitalism: Minsky’s half century from World War Two to the Great Recession* (New York: Routledge, 2014), 4.

FROM ASOCIAL TO WORLD CREATION: HOW VIDEO GAMES ENCOURAGE MUSICAL PARTICIPATION IN A GLOBAL COMMUNITY

Tora Bonnier

This project for Honors in Music demonstrates the narrative and dialogic elements of sound effects and music in the sphere of modern video games and the global gaming community, examining the increased political and financial prowess of MOBAs, Multiplayer Online Battle Arenas, and their use of sound as both diageitic and non-diageitic communication, participation, and creation.

My goal in this project is to evaluate the synesthetic relationship between sound and visual effects in MOBAs as analyzed through sociological lenses of authors DeBord, Beaudrillard, and Rossolatos to expand the communicative aspects of the modernized commodification and spectacle of music; video games not only let the player listen to sound, but also evoke sounds in relation to immediate actions as well as create sounds by charted trajectories.

The synesthetic emersion consumers develop within video games are key for their participation, and MOBA's allow that to happen at in a more concrete, immediate, and reactionary venue by allowing players to literally create their own soundtracks with their in-game relationships to other players around the world.

PENSIONS AND PORK BELLIES: IMPLICATIONS OF CAPITALISM'S EVOLUTION ON SYSTEMIC RISK

Sean Bright

This paper principally concerns itself with both the creation and ultimate precipitation of financial asset bubbles linked to the 2007-08 Global Financial Crisis. While literature surrounding the crisis predominantly focuses on the boom of the housing market and its ensuing collapse, an alternative analysis can be effectively undertaken through a study of the most recent commodity market boom and bust, spanning 2000-08.¹

Working within a heterodox framework, this paper will show that the commodity market bubble was not an anomaly, but rather a result of the long-term transformation of capitalism, initiated by its inherent necessity of accumulation.² This evolution in functional economic form resulted in a system dominated by highly-levered, non-bank financial institutions whose principal functions catalyzed the commodity market boom and bust.

In an effort to demonstrate the significance of the growing propensity towards asset bubbles, the analytical basis used to understand the 2008 collapse of the commodity market will be extended to explain how the foundational characteristics of what Hyman Minsky dubbed “Money Manager Capitalism,” fundamentally altered the nature of financial markets.³ Defined by financialization and deregulation, this evolved form of capitalism morphed financial markets into tightly coupled, interactively complex systems, thereby augmenting systemic risk and, by extension, the probability of future financial crises.⁴

¹ Wray, R. (2009). Money Manager Capitalism and the Global Financial Crisis. *Levy Economics Institute Working Paper Collection*. Retrieved from http://www.levyinstitute.org/pubs/wp_578.pdf

² Foster, J. B., & Magdoff, F. (2009). *The Great Financial Crisis*. New York, NY: Monthly Review Press.

³ Tymoigne, E., & Wray, R. (2014). *The Rise and Fall of Money Manager Capitalism*. New York, NY: Routledge.

⁴ Bookstaber, R. (2007). *A Demon of Our Own Design: Markets, Hedge Funds, and the Perils of Financial Innovation*. Hoboken, NJ: John Wiley & Sons, Inc.

PUTTING A MICROSCOPE ON MICROAGGRESSIONS: A CLOSER LOOK INTO STUDENTS' EXPERIENCES WITH MICROAGGRESSION IN THE CLASSROOM

Devyn Workman & Peter Budmen

Identity development is increasingly gaining attention on college and university campuses as different academic and student life departments support students in developing a better understanding of who they are. Within this context, we chose to ask “What are the ways in which students at HWS experience explicit or environmental microaggressions related to sexual orientation and/or gender identity in classrooms?”

By conducting interviews with self-identified gender- and sexual-orientation minority students, we were able to explore the nature of the identity disclosure process, the extent to which there is an inclusive atmosphere, and the types of oppression that exists within classrooms at HWS. This qualitative study is part of a larger investigation of microaggressions more generally in a wide variety of contexts.

This study is based on research on microaggressions and the larger concern for the multitude of effects microaggressions can have on a population, particularly Derald Wing Sue's (2010) book *Microaggressions in Everyday Life Race, Gender, and Sexual Orientation*, the researchers' interest in inclusive classroom studies, and the importance of acknowledging and employing personal identities within the classroom. Our results will be used to foster a greater awareness of the subtle or explicit environmental microaggressions that can and do occur within classrooms at HWS.

THE SUBVERSIVE POWER OF THE FEMALE VOICE:
VOCAL TEXTURES, SONIC IMAGERY, CONSTRUCTION OF EMOTION, AND
TECHNOLOGY IN THE MUSIC OF BJÖRK

Grace Bugbee

The Icelandic artist known as Björk has found a way to harness the influences of both old and new practices, while positioning herself outside of convention, seeming to almost inhabit a non-human species through the use of computer technologies and sound recording techniques. This project investigates two aspects of Björk's music and image.

I will analyze a song from her 2004 album titled *Medúlla*, discussing the song's vocal harmony and oscillation, accumulative form, and vocal texture. In addition, I will illustrate how these textures, vocal timbre, and unusual pitch progressions contribute to forming sonic imagery. Second, I will focus on Björk's use of sound recording technology and electronics through the study of "Crystalline." This is a song from her contrasting album known as *Vespertine* (2001), which explores the relationship between the natural and artificial. Here I will be pointing to the possibilities that recording technology offers to the musical artist and discussing how her lyrics and vocal characteristics can be interpreted as metaphors for nature and provide a pathway into a celestial utopia.

My ultimate goal is to show how Björk's strives to connect and engage with her inner core, her surrounding nature, and her listeners through unconventional musical exploration.

REVERSING THE RESOURCE CURSE: THE FUTURE OF LATIN AMERICAN ECONOMIES

M. Kathleen Burke

This project seeks to address the overarching research question “How dependent is Latin America on commodities for growth?” Historically, commodity exports have been at the forefront of Latin American economies, generating foreign exchange reserves and creating new outlets for investment. During a commodity boom, the factors of production move to where the profits are, thereby concentrating growth into the thriving sector. As primary products exports rise, domestic currencies tend to appreciate, making other exports less competitive. The consequent decline in the manufacturing sector, a concept known as Dutch Disease, hinders the process of industrialization. The ineluctable result is increased dependence on commodities, which have exhibited declining terms of trade over time. For Latin America, globalization has strengthened the links between commodity prices and economic activity.

While the region enjoyed a commodity boom starting in the early 2000s, vulnerability to international crises, such as the 2008 financial crisis, hurt Latin American export revenues and foreign direct investment from the United States. The tendency of crises to spread to emerging markets reinforces the argument for diversification and decreased reliance on commodities. Commodity exports to China, however, have driven up the prices of Latin American commodities. As growth in China continues to slow, the demand for these commodities dwindles, thus undermining the Latin American export sector. Meanwhile, China has established an internationally competitive manufacturing sector with high technological capabilities. Here, the *multilatinas*, Latin American multinational corporations become essential for growth and economic development. In the context of these exogenous international forces, the future of Latin America can be viewed as a promising one, with diverse outlets for growth outside the commodity realm.

Elson, Anthony. “Dragon Among the Iguanas: China’s Economic and Financial Relationship with Latin America is Increasingly Important to the Region.” *Finance and Development* 51.4 (2014): 44-46. *EconLit*. Web.

Gallagher, Kevin, and Roberto Porzecanski. *The Dragon in the Room: China and the Future of Latin American Industrialization*. Stanford, CA UP, 2010. Print.

Gruss, Bertrand. “After the Commodity Boom.” *IMF.org*. International Monetary Fund, n.d. Web. Aug. 2014.

Lederman, Daniel, and William F. Maloney. *Natural Resources, Neither Curse nor Destiny*. Palo Alto, CA: Stanford Economics and Finance, an Imprint of Standard UP, 2007. Print.

Santiso, Javier. *The Decade of the Multilatinas*. Cambridge: Cambridge UP, 2013. Print.

“BIG, BAD WESTERN” PRIDE AND ITS PLACE IN INFLUENCING LGBT RIGHTS IN LATVIA

Geneva Calder

On June 20th, 2015, Latvia made history as the first former-Soviet country to host a EuroPride parade. Though Pride is undoubtedly one of the most public expressions of LGBT respect and acceptance, it is not always directly reflective of the political situation going on internally in a state. Through this project for Honors in Public Policy, I explore whether or not Latvia is progressive in other areas of LGBT rights, and consider the extent to which current U.S. strategies could work in the small Baltic state.

As a young democracy with a vastly different social history from the United States, Latvia has its own set of demons to address. By surveying a mixture of Latvians, Canadians, and Americans, I collected data to more accurately represent the contrast in public sentiments between these countries.

After identifying Latvia’s main barriers to improving LGBT rights, I hope to suggest assimilationist policy and provide a queer theory critique on the assimilationist strategy more generally in hope that one day mere tolerance and assimilation will not be enough for the LGBT population of Latvia.

BRAIN ABNORMALITIES AND CRIMINAL BEHAVIOR

Shantel Carrasco

My project has focused on how brain abnormalities can lead to aggression and violent criminal behavior. I ask three questions:

1. How do abnormalities in the prefrontal cortex, subcortical regions & amygdala lead to violent and aggressive behavior?
2. How do the behavioral outcomes from brain abnormalities lead to extreme criminal behavior such as rape, murder, or serial killings?
3. Why does a biological understanding of crime matter and how does it impact forensic psychology in understanding criminal behavior?

My goal is to provide an integrative perspective towards understanding violent behavior, leaving the audience with an understanding of the biological basis of crime.

TV DINNER POLITICS: FAMILY STRUCTURE CHANGES AND IMPACT ON AMERICAN POLITICS

Erin Casey

In the mid twenty-first century, family influenced ones' political affiliation, but today texting and Facebook share time with the sit down family dinner of old. During the past 40 years, rapid changes in political structure have accompanied changes in media and technology. Do we vote like mom or dad, or are we now more influenced by our friends' Facebook posts? What drives political affiliations?

This presentation explores the extent to which outside influences shape political beliefs, paying particular attention to the intersection of family, media and politics in the 21st century. To document these changing viewpoints, I blend historical analysis, the sociological study of the family, and a survey of HWS student's voting trends. By researching what drives political affiliations, I hope to form conclusions about how individuals form political opinions and what those opinions mean for the future of American Politics.

HOW DO YOU VOTE?

Kevin Casey

Elections matter in the United States. Not only do they select future leaders for the country, but they also reveal information about the consciousness of the electorate as a whole and also subgroups. Once aggregated, political strategists and campaign managers use such data to target specific audiences to solidify their vote.

This research for my Senior Seminar draws on longitudinal data collected from the General Social Survey conducted by the University of Michigan and seeks to identify whether historical cohorts maintain their own electorate identity. I analyze and quantify data using cross tabular analysis and frequency distributions. My hypothesis consists of three alternatives that explain a generational cohort's voting identity. The first is that cohorts become increasingly conservative over time because they work, save, and become less idealistic but rather more practical. The second alternative results from a congealed moment when the cohort enters the electorate and maintains allegiance to their party. The third is that generational cohorts vote based on current and recent events, which would suggest an alternating political orientations within the cohort.

DUAL-IMMERSION PROGRAMS: PARTICIPATION AND ENGAGEMENT

Samantha Cohen, Emily Feldesman, and Taylor Sweet

Dual-immersion programs have been of growing interest in schools around the United States. A dual-immersion program integrates two languages, one majority language and one minority language, into content area instruction during the school day. These programs have the benefit of allowing students from different cultural and linguistic backgrounds to interact; the programs aim to produce students who are bilingual, bicultural, and biliterate.

As part of our Research in Education seminar, each member of our group researched a local dual-immersion program. The program has been using a 50/50 model (English for the first ½ of the day, Spanish for the second ½ of the day) for content instruction, and operating in Geneva schools for three years. We focused on three facets of student learning: impact on student engagement, patterns of student participation, as well as gender differences in student participation. Research methods include classroom observations and supplementary interviews with teachers. The results of our research will be reported to administrators and educators in the school district, and the findings will help inform programming decision-making both within the dual-immersion program and more broadly.

CONTEXT AND LEADERSHIP: PEDAGOGICAL TOOLS FOR TEACHING LEADERSHIP

Caroline Connor

The central questions guiding my project are “Why do we teach the same leadership concepts to learners of all ages?” and “How do pedagogical methods for leadership differ depending on context?”

My interest in exploring these two questions is rooted in the diverse experiences I have had developing and facilitating afterschool leadership programs for the North Street Elementary School Leaders, serving as the conference director for a 5-day leadership conference for high school juniors, and working as a Teaching Assistant for the Leadership Theory I Reader’s College course (a part of the HWS Leads Certificate program). In each of these experiences, I have found that, while similar leadership concepts are taught to learners at each level (elementary, high school, and college), the takeaways differ depending on the lived experiences of the students.

Since leadership can be learned, it is important to recognize how pedagogical tools for leadership can be tailored to best facilitate the ongoing process of leadership development. I analyzed the effectiveness of several activities for specific age groups and what context variables influenced the delivery of these pedagogies. I have found that the particular practices implemented throughout the different stages of leadership learning are very context dependent. The implications of these findings are that facilitators, in particular, must utilize specific pedagogical methods for certain concepts in order for the learners to receive meaningful takeaways from the activities.

WHAT HAPPENS HERE STAYS HERE:
PLACE AND IDENTITY IN LAS VEGAS LITERATURE

Kelly Craig

A recent advertisement campaign promoting tourism to Las Vegas features the slogan “Be yourself here, or anyone else.” As a supplement to “what happens here stays here,” this slogan reveals the startling lack of identity embodied in media about this city of illusion and façade. To understand the way that this identity-less perception is both promoted and problematized, I have turned in my project for Honors in English to literature set in Las Vegas to examine the experience of Las Vegas as a real place.

Through exploring the literary history of Las Vegas, examining fact and truth in writing about place, identifying patterns in themes and craft, and writing my own short stories set in Las Vegas, I have determined that Las Vegas as a setting produces certain literary temptations, and the contradictions inherent in Las Vegas itself shape both the form and the content of literature set there. Examining literature set in Las Vegas leads to a deeper knowledge of the need for accuracy in fiction of place, the influences of literature on identity, and the dependency of identity on literature, both in Las Vegas and elsewhere.

RISKY BEHAVIOR: WHEN MAIN STREET MEETS WALL STREET

Jennifer Cytryn

The subprime mortgage crisis expanded the housing market through growing mortgage credit and new accessibility of homeownership, which created a remarkable boom between 2004 and 2006. However, the rise and fall of the subprime mortgage market follows a classic lending boom-and-bust scenario.

Economist Hyman Minsky created the financial instability hypothesis, which explains how stability is inherently destabilizing and that economic prosperity encourages lenders and borrowers to underestimate risk. Using Minsky's theories, I will explore and analyze the subprime mortgage crisis, which impelled the global financial crisis in 2008. I will argue that the combination of monetary policy, the housing boom, and the introduction of new banking rules and financial innovations created an environment that elevated risky behaviors within the financial system.

I suggest that Wall Street's increased risk-taking behaviors were passed on to Main Street in the form of homebuyers, which contributed to the burst of the housing bubble. My study of the subprime mortgage crisis will demonstrate the inefficiency of high-risk behaviors as these behaviors, have the ability to reduce a stable financial system to instability.

ISLAMIC BANKING AND CONVENTIONAL BANKING: A COMPARATIVE STUDY

Mohammed Daajneh

Islamic Banking is fast growing in the global financial industry due to the growing demand in Muslim countries to follow the Sharia law. My project explores two main questions: “What are the differences between Islamic Banking (IB) and Conventional Banking (CB)?” and “How the global financial crisis impacted each of the Banking systems?”

My interest in this topic stems from my identity as a Muslim studying abroad in the U.S. Through my economic studies, I’ve encountered the Conventional Banking model and the Islamic Banking model. In the research portion of my project, I explored a variety of different studies conducted by the International Monetary Fund (IMF), books, and journals in order to obtain a clear understanding of both Banking models.

The comparative study between the Islamic Banking and the Conventional Banking will allow us to differentiate between the two models, intermediations, risks, regulations, and supervisions. In addressing the second question, I will look at Islamic banks and Conventional banks and the impact of the financial global crisis of 2008 on the performance in terms of profit, credit and asset growth, and external ratings. The research suggests that Islamic Banking is asset-based and centers on risk sharing, whereas Conventional Banking is debt-based and centers on risk transferring. Islamic Banking has been affected differently than Conventional Banking by the global financial crisis; I hope to incorporate both models to create one that would have minimized the impacts of the crisis.

CULTURAL IDENTIFICATION THROUGH MODERN DANCE

Ingrid Dehler-Setzer

My dance research, conducted in Tubingen, Germany, traced the cultural roots of both German Expressionist Dance and American Modern Dance. In the early-to-mid 20th century, the new American dance form was deeply influenced by historical, political, and social factors. German Expressionist Dance, also influenced by its rich political history and traditional German cultural values, is considered to be one of the primary roots of modern dance technique, an art form that embodies movement patterns and principles of human motion driven by our natural world.

Both American modern dance and German Expressionist Dance are rooted in organic and natural approaches to the human body. The German Expressionist artist, Rudolf von Laban, not only cultivated German cultural values, principles, and traditions in his work, but also taught movement philosophies that became integral to modern dance movement pedagogies in the USA. American modern dance pioneers Isadora Duncan, Doris Humphrey and Hanya Holm were heavily influenced by the political expression in German culture and the organic nature of Expressionist movement, and these early American dance teachers developed teaching methods and movement styles based in part on German cultural principles.

Although the human body and connectivity are often understood differently in America and Germany, the U.S. modern dance community refers to and understands the body in a way strikingly similar to the German cultural community. The U.S. modern dance community has been formed by the integration and adaptation processes of positive cultural appropriation, which unites societies through cross-cultural integration, and this integrative process has also formed my bi-cultural dance identity.

TEXAS: THREE SCENARIOS FOR A CLEANER ENERGY FUTURE

Aaron Derby, Michael Hanson, Augustus Pierce, and Spencer Ward

The world is on the brink of an energy revolution. As new and stricter energy regulations are implemented, individual states are responsible for creating innovative solutions in order to reduce carbon emissions. What will the future of energy production be in Texas? This project seeks to answer that question by proposing three different electricity and carbon scenarios—the Business-As-Usual, the Clean Power Plan, and the Radical Scenario—for the state of Texas, analyzing scientific, technical, policy, economic, and humanistic aspects.

Global climate change is no longer a problem of the future, but in a period where humans are faced with a perfect storm of technological developments, national security concerns, and new environmental issues, there is room for the most innovation and investment since the early days of the power sector (Lovins 173). Using Texas' unique energy grid, large population, and enormous geographic size and diverse energy sources as a case study, it is possible to determine the limitations and opportunities of changes on the larger scale of the U.S. power sector.

Lovins, Amory. (2011). *Reinventing Fire: Bold Business Solutions for the New Energy Era*. White River Junction, VT: Chelsea Green Publishing .

FOSTERING SOCIAL JUSTICE IN U.S. INDEPENDENT SCHOOLS THROUGH CULTURALLY RELEVANT, TRANSFORMATIONAL LEADERSHIP

Virginia DeWees

My project attempts to understand the ways and extent to which educational leaders in independent schools value social and cultural diversity by asking the research question “How do educational leaders of independent schools in the U.S value and attain diversity in institutions that are historically racially and socially homogenous?”

This project for Honors in Education began with a review of the literature on the nature and history of independent schools, the value of diversity in education, the theory of cultural relevancy, and transformational leadership. I then conducted ethnographic fieldwork at five different independent schools throughout the Northeastern United States, interviewing Head of Schools, teachers, students, and administrators. Analyzing these interviews led me to develop a specific model that schools can use to address issues of diversity and foster greater diversity among students, staff and faculty. Overall, I advocate schools adopting communal perspective towards fostering and respecting diversity in independent schools.

THREE UNIQUE MODELS EXAMINING CARBON DIOXIDE REDUCTION FOR ELECTRICITY GENERATING UNITS IN CALIFORNIA

Tim Dirgins, Sam Hallowell, and TJ Kaszubski

The alarming effects of global warming have been amplified by historically increasing carbon dioxide emissions, forcing the government to take action through carbon reduction policies. On August 3rd, 2015 President Obama enacted the Clean Power Plan (CPP). The CPP was a historic step in effort to reduce carbon emissions from electricity generating power plants. The plan put forth achievable benchmarks for each state in order to reduce carbon emissions by 32% from 2005 levels by 2030. We were interested in this topic and its possible impact on the state of California due to California's climate related carbon dioxide emission policies.

Our project looks at three separate possible scenarios in the state of California of state led policies to reduce carbon emissions. The three scenarios include a Business-As Usual scenario, a CPP scenario, and a best practice/radical scenario for the state of California. The Clean Power Plan scenario sets a maximum carbon dioxide target that California must achieve by 2030. The radical or best practice scenario will implement technologies such as renewable energy technologies to expedite the process of reducing carbon emissions compared to the other two scenarios. We will discuss policy implications of each.

EMBODIED LEARNING THROUGH MOVEMENT EDUCATION AS CHILD ADVOCACY

Morgan Drake

The importance of dance education is not defined by training children to learn skills through step-by-step memorization. Instead, the importance of dance/movement education is to generate embodied learning, creative thought, and mind-body connectivity in early childhood education. Creative intelligence needs to be promoted in schools and also needs to be prioritized among other forms of intelligence. The emotional and performative aspects of dance can drive educators to look past cognition, to perceive dance simply as expressive and self-indulgent entertainment. Therefore, the importance of facilitating creativity, moving to problem solve, and gaining full body intelligence is often overlooked in current educational practices.

During my time at *Discovery's Playground*, an afterschool program in Geneva, NY, I worked to integrate arts and education while initiating creativity and individual problem solving through movement. I planned activities in which the children had to problem-solve while moving, sometimes integrating music and visual art as well. This allowed the students to develop confidence in their creativity while learning how to mix different art forms, such as making music with your body.

Through my research and application of pedagogical ideas from Maxine Greene and Anne Green Gilbert, I have concluded that movement education is an essential part of childhood development, and therefore, greater importance needs to be placed on embodied learning and facilitating creativity in schools. In order to advocate for the emotional, spiritual, and cognitive well being of children and to capitalize on their scholastic potential, there is a great need for the synthesis of mind and body through movement in education.

THE EFFECT OF EARLY CHILDHOOD EDUCATION ON MENTAL AND PHYSICAL HEALTH OF CHILDREN AGES 0-5 IN GENEVA, NY

Morgan Drake, Olivia Hoden, and Carmen Sorrentino

Early childhood education and its effects on development is a significant area of concern. Since the research regarding this crucial developmental period is sparse in the Geneva community, our aim is to gain information concerning the health and well being of children ages 0-5 in Geneva. We are interested in exploring the effects that exposure to early childhood education has on children's mental and physical development.

We have gathered fifty five previously distributed surveys conducted by the Geneva 20/20 community organization (focused on assessing and promoting the well being of children in Geneva). These surveys were sent to families living in the Geneva area with children ages 0-5. We will supplement the data collected from the surveys with information from local physicians regarding the health and well being of children.

We hypothesize that we will be able to detect a positive correlation between attendance in either a private or public pre-school program, and mental (speech and language skills) development and physical (fine motor, gross motor, and sensory functioning) development. Our ultimate goals in conducting this research are to shed light on the importance of early childhood education and to create an informative platform to facilitate change regarding this issue in the Geneva community.

DOES PRENATAL EXPOSURE TO THE OBESOGEN TRIBUTYL TIN CONTRIBUTE TO TYPE-II DIABETES MELLITUS?

Dominic Facciponte

Type-II diabetes mellitus (T2DM) and related comorbidities, like obesity, are critical issues within the fields of public health and clinical medicine. In 2015, over 21.0 million people have been diagnosed diabetes while an estimated 8.1 million people are undiagnosed in the United States (Center for Disease Control). This accounts for 9.3% of our nation's population, with the majority (90-95%) of these cases categorized as T2DM. Public health initiatives have focused on the social and economic factors behind their incidence. However, minimal effort has been directed at investigating the potential embryological origins of T2DM. It has been reported that exposure to teratogens in utero facilitates the genesis of adult onset diseases. Among these teratogenic compounds are obesogens which disrupt normal development and balance of lipid metabolism which can lead to obesity and possibly T2DM.

As part of a class final project, I created a grant proposal aimed at providing funding for new research into these exposures. The focus of this grant proposal is two-fold: to examine the embryonic origins of adult onset type-II diabetes mellitus due to prenatal tributyltin exposure and to determine the efficacy of restoring insulin sensitivity using regenerative medicine. Previous work has reported successful white to brown adipocyte conversion; however using the converted brown tissue in regenerative medicine to restore cellular insulin sensitivity has not been attempted (Ohno et al. 2012; Kajimura et al. 2010). Accordingly, the novel ideas presented in this grant proposal are intended to utilize the strategies of regenerative medicine in order to develop a model to reverse adult onset T2DM.

Center for Disease Control and Prevention (CDC-1_ "2014 National Diabetes Statistics Report."
<http://www.cdc.gov/diabetes/data/statistics/2014statisticsreport.html>. Date Last Accessed: 12/15/15.

Ohno, H., Shinoda, K., Spiedelman, B.M., Kajimura, S. (2012). PPAR γ agonists Induce a White-to-Brown Fat Conversion through Stabilization of PRDM16 Protein. *Cell Metabolism*, 15, 395-404.

Kajimura, S., Seale, P., Spiegelman, B.M. (2010). Transcriptional Control of Brown Fat Development. *Cell Metabolism*, 11, 257-262.

TWIN CITIES R!SE, A RESEARCH-DRIVEN STUDENT PERSPECTIVE ON APPLIED EMOTIONAL INTELLIGENCE

Anthony Falco

This presentation investigates my experience developing the advanced sections of the personal empowerment program over the past three years with Director of Residential Education and program instructor, Brandon Barile. I encountered the first section of the personal empowerment class my sophomore year as a student. Studying under Brandon Barile, whose research was driven by the “Twin Cities R!SE” organization and the work they do with youth and adult empowerment in low income communities, I was determined to further my research and experience with empowerment. Central to my development and the development of the program is an understanding of applied emotional intelligence. This presentation exposes the unique perspective I have as a student, co-teacher, coach, and co-creator, and the program’s potential to impact students in the future.

To provide a clear perspective on some of the content and research in the course curriculum, I will focus a portion of my presentation particularly on the concept “gratitude.” Working with applied emotional intelligence concepts like gratitude, self-actualization, anger management, and many others, was pivotal to my entire collegiate experience, and can be for future HWS students.

MUSICAL INTERDIEGESIS:
SOUNDSCAPE AND LEITMOTIF IN NARRATIVE VIDEO GAMES

Noah Feeman

Music is an essential part of media studies. Film, television, new media, online media—all of them have music integrated to some extent. Video games are no exception, and the use of wall-to-wall music has become commonplace in almost all games, from the early 1970s until the present day. This music can come in computer-generated sound bits, played by chips, to electronic music meant to simulate instruments, and even can be recorded fully symphonic soundtracks in the style of films.

One of the most unique parts about video game music is the concept of “interdiegesis,” the line over which music in games often crosses in order to exist both nondiegetically and diegetically at the same time. Starting out nondiegetic, interdiegetic music makes its way into the diegesis, sometimes with a source and sometimes not, crossing the fourth wall and fictionalising something we associate as part of our, the real, world. The other part of what makes interdiegetic music so different from any other form of soundtrack orchestration is that it often leaves its home canon, and enters into other worlds, sometimes nondiegetic and sometimes as source music, changing the way it has to be interpreted in its original canon.

Two prime examples of this concept are Nintendo’s *The Legend of Zelda* series and Square Enix’s *Final Fantasy VII/Compendium*, both of which make use of interdiegetic music. In the course of this Honors thesis, with a focus on these two media texts, the interaction between music, narrative, and diegesis is explored with reference to the research of William Cheng, Michel Chion, and Richard Dyer in order to see what it is about video game wall-to-wall music that makes it so definitively different than how it appears in other forms of media.

THE POLITICIZATION OF ABORTION: THE POWER OF RHETORIC

Rachel Fischer

In this election year and with a newly open seat on the Supreme Court, women's health issues—and abortion in particular—have been brought back into the forefront of the public consciousness by key players on both sides of the issue. The National Right to Life Committee, one of the oldest pro-life organizations in the United States, is outspoken about their desire to bring an end to legal abortion.

This project analyzes how the NRLC communicates its position on abortion. I use rhetorical theory, which can provide the tools necessary to study social movements, and social movement theory as lenses to investigate the NRLC's ideological and anti-feminist methods of communication. This interdisciplinary method of analysis clarifies the purpose of these strategies, which I argue is to frame the issue of abortion as political, rather than ethical, moral, or religious.

The NRLC's political positioning of the issue of abortion may be an effective strategy for the pro-life movement, and should not be underestimated in its potential to influence abortion policy. Through this project, I hope to show that rhetorical analysis can be an effective tool for understanding how organizations attempt to create political change.

AGE AND SIZE AS PREDICTORS OF MERCURY ACCUMULATION IN LAKE TROUT FROM THE FINGER LAKES

Alex Gatch

Lake Trout (*Salvelinus namaycush*) are a common sport fish of the Finger Lakes region in New York, so it is important to quantify their mercury (Hg) concentrations to understand potential health risks associated with ingesting the fish. Mercury accumulation in fish is variable by species, individuals, and habitat type. As part of my thesis for Honors in Biology, I present Lake Trout characteristics (i.e., weight length, age, sex, origin) that are related to fish Hg concentrations so that anglers can make informed decisions regarding which fish to eat. I also present Lake Trout Hg concentrations among and within different Finger Lakes, including Canandaigua, Cayuga, Owasco, and Seneca Lakes.

Fish were collected with gill nets and rod and reel, and then weighed, measured, and sexed. Total Hg concentrations were determined using a Milestone DMA-80 via atomic absorption spectrophotometry. Lake Trout otoliths (an ear bone of fish) were used to age fish. Weight and length are correlated with Hg accumulation while age, sex and lake origin are not. Mercury concentrations were variable among similarly sized fish. Within the sample size, 40% of Lake Trout were over the EPA consumption guideline (300 ng/g). Each Finger Lake provides a different environment, which may influence how Lake Trout accumulate mercury.

JUDICIAL SUPREMACY AND PUBLIC OPINION

Victor Giotto

Becoming more prominent in the early twentieth century with increased use of judicial review and continuing to present day, the Supreme Court has asserted that it has the right to exercise judicial supremacy. The absolute power that the judiciary branch has seized is deeply problematic due to their infinite discretionary interpretive preeminence. What are the implications of this?

Given that the Supreme Court was afforded the privileges of being nominated and serving for life under the logic that they were solely unbiased Constitutional jurisprudential interpreters, their relationship with political affiliations in addition to their absolute interpretive ascendancy is deeply problematic to American democratic principles. There are indications that public opinion influences judicial decision making. To what extent are Supreme Court decisions influenced by public opinion? In examining cases such as *Obergefell v. Hodges* and others on social issues, there seems to be a relationship between public opinion Supreme Court decisions. This paper examines the democratic implications of the rise of judicial supremacy and explores the relationship between public opinion and Supreme Court decisions.

TAKING THE “C” OUT OF COLORADO: REDUCING CARBON EMISSIONS FOR COLORADO’S ELECTRICITY SECTOR

Katrina Goddard, Philip Hofsiss, Zoe Jackson-Gibson, and Randy Palacios

In this project, we examine the work of several leading energy thinkers in an attempt to understand the energy future we need, and the barriers and opportunities represented by that future. We are analyzing this energy future because, based on global climate change, we cannot continue to live at the rate we are consuming.

The Clean Power Plan, first issued by the Environmental Protection Agency on August 3, 2015, is meant to reduce and reduce the carbon emission levels as well as set future goals of maintaining low carbon levels. States are given a target and are then able to create their own responses to the Clean Power Plan and their own strategies for achieving their state targets. We are focusing on the state of Colorado’s energy situation and how the Clean Power Plan potentially revolutionizes Colorado’s electricity sector.

Colorado's current electricity mix consists of more than 50 percent coal, with resources like natural gas and wind rounding out the top three-generation types. Hydropower, solar and other electricity sources make up approximately three percent. We will propose our own radical plan using technology already available in new and inventive ways to maximize the state’s reduction of carbon emissions. This plan will enhance the renewable potential of the state and increase the state's ability to capture and apply these renewable resources in the electricity generated in the state. This plan will not only help dramatically reduce the carbon emissions of the state of Colorado but at the same time shift the power generation of the state to clean energy and implement new technologies that will allow for opportunities such as job creation, cheap power and clean transportation.

HERD BEHAVIOR: RATIONALITY AND THE 2008 FINANCIAL CRISIS

William Godfrey

While it is well known that financial innovation, more specifically the market for collateralized debt obligations, played a role in the 2008 financial crisis, what allowed this to occur? Was it the booming residential housing market and the constant search for higher-yielding financial instruments, or was there more to it? What about the behavioral finance proposition that investors don't always react rationally, leading to anomalies in the market?

The financial instability hypothesis, by Hyman Minsky, proposes that success leads to excess, which was evident in the booming CDO market in the mid-2000's. In addition, behavioral economics states that *homo economicus* is susceptible to herd behavior, leading to a breakdown in rationality and decision making. I aim to combine both of these theories to allow for further understanding of why this financial instrument, the collateralized debt obligation, had such a detrimental consequence on the economy.

This combined framework should illuminate whether economic success throughout the 2000's caused investors to take on riskier positions in the market, and whether herd behavior contributed to the growth of the CDO market even though many knew of its inherent instability, leading to a break down in rationality. Examining the financial crisis through this lens links the effects of herd behavior and exuberance to the individual and the stability of the financial system through the impact of new, risky financial instruments.

STARSPOT CROSSING TRANSITS IN LONG-CADENCE KEPLER DATA:
A SEARCH FOR CORRELATIONS BETWEEN STARSPOTS AND STELLAR
PROPERTIES

Michelle Gomez

As visible manifestations of strong magnetic fields, starspots provide an opportunity to explore small-scale properties of magnetic fields. With the launch of NASA's Kepler satellite, I now have access to thousands of transiting planet host stars that I can use to study starspots. I have written a program for my project for Honors in Physics that uses repeated brightness measurements of all transiting planet host stars to measure starspot variability caused as the planet transverses in front of starspots. I analyzed a sample of 249 transiting planet host stars from the Kepler catalogue and found 17 whose light curves are strongly affected by in-transit starspots. I will be investigating correlations between the presence of starspots and the temperature and rotation period of the star. I will also use the known position of the planet to explore the latitude of the starspot on the host star.

SALIR ADELANTE: A STUDY OF PERUVIAN MIGRATION AND THE IMMIGRANT EXPERIENCE

Jessica Graves

My Honors project in Anthropology explores Peruvian migration patterns from 1968 to 2000. I focus on external migration and the economic and political policies that affect the flow of migrants. I also use ethnographic studies, gathered from personal interviews and outside sources, in order to give life to the migration movement and observe how these experiences alter a migrant's perspective on Peruvian Identity. By identifying these major political movements and economic factors and overlaying them with ethnographic studies, I look for patterns and trends that can be extracted and used as an explanation for the motives of migrants. These motives, I argue, differ from the traditional push and pull factors that narrate migration patterns and can be considered the intangible factors that cause migrants to choose to leave their homes in the first place.

Understanding the motivation and the social constructs behind migration is crucial to the implementation of migration policy and theology. This is especially relevant to the Peruvian case as migration statistics have shown a steady rise in migrants over the latter half of the twentieth century. Current studies show that the 2000s represent a new wave in migration from Peru, whose major destination has historically been the United States. The demographic of the Peruvian migrant is unique to that of other Latin American countries; thus, it is important to view this case study as a unique perspective.

GENDER AND MINDFULNESS-BASED TRIALS

Rosalind Gray-Bauer and Kathryn Strang

The concept of “mindfulness” can be understood as a non-judgmental awareness of the present moment. Interventions based on mindfulness were first introduced to the Western medical world in 1979 through the development of Mindfulness-Based Stress Reduction (MBSR). Since then, other mindfulness-based psychological interventions have developed, most prominently Mindfulness-Based Cognitive Therapy (MBCT). Clinical and research interest in mindfulness-based interventions, particularly MBSR and MBCT, have grown substantially over the past decade. There is now evidence that mindfulness-based therapies are beneficial for individuals with a wide variety of health conditions, including chronic pain, cancer, cardiovascular disease, and multiple mental health conditions. However, little attention has been paid to the demographics of the samples in clinical trials of mindfulness-based therapies. In particular, it is unclear whether men and minority individuals are adequately represented in the research on mindfulness-based therapies.

The present study addresses this gap in the literature by examining randomized clinical trials utilizing MBSR and MBCT in the last ten years. After analyzing the demographic data of 126 randomized controlled trials, we found that most of the individuals who participated in the studies were female (68%) and members of the ethnic majority (94). To the extent that mindfulness based interventions have been developed and tested in ethnic-majority-female samples, the resulting therapies may not be as effective for men and minority individuals.

HAVING “THE TALK”: UNDERSTANDING THE KNOWLEDGE OF CONSENT AMONG THE YOUTH OF INNER CITY ROCHESTER

Scarlyn Gutierrez, Afrika Owes, and Dana Williams

The aim of this project is to research understandings of consent for youth in the inner city of Rochester. Specifically, we want to research the presence and magnitude of understandings of consent amongst high school adolescents, partnering with Planned Parenthood of Canandaigua and expanding upon their research about what students in the Upstate New York area have learned about sex education through their education in schools or through other contacts.

We will conduct in-depth interviews with students participating in the “In Control” after-school program. “In Control” is a peer-mentoring initiative by Planned Parenthood to decrease teenage pregnancy rates in the inner-city of Rochester, NY. Our goals are to further assess existing knowledge regarding consent and understand where this knowledge comes from, how it plays out in the lived experiences of the students, and whether this acquired knowledge varies by race, ethnicity, and/or gender.

We hope that our research will illuminate ways in which the “In Control” program could improve its sexual education programming to help students better understand the topic of consent as it relates to their own lives.

PARENTAL IMPRISONMENT: EFFECTS ON CHILDREN AND FAMILIES IN THE UNITED STATES

Sophie Halter

Institutionalized racism in the United States takes many forms; mass incarceration is one amongst many. Mass incarceration has structured and perpetuated systemic inequalities in the United States, with millions of bodies of color occupying state and local prisons. More importantly, youth of color with an incarcerated parent or parents experience the effects of mass incarceration on both individual and structural levels. The goal of my project was to answer four questions relating to mass incarceration and the experiences of children of incarcerated parents: “What is mass incarceration in the United States?” “How has mass incarceration in the United States affected children of incarcerated parents?” “What support systems exist to provide the needs of children of incarcerated parents?” and “What research could support a new initiative or intervention to support children of incarcerated parents?”

Ultimately, I am interested in the family unit and how extended family members can provide unique support for children of incarcerated parents. As a result of my research, non-profits that support children of incarcerated parents will have a wealth of information to use for grant proposals. Moreover, my research underscores the social realities of children of incarcerated parents in the United States, and highlights how mass incarceration not only jeopardizes the lives of those incarcerated, but also their families.

SEX EDUCATION IN RURAL HIGHLAND GUATEMALA

Olivia Hanno

In Guatemala, adolescent pregnancy often prevents young girls from finishing their education, perpetuating a vicious cycle of extreme poverty within their families (Samandari & Speizer, 2010). This may be partially attributed to a lack of sex education resulting in low rates of contraceptive use. One study showed that sexually active adolescents in Guatemala with primary or secondary education were much more likely than those with no education to have used a modern contraceptive method (Samandari & Speizer, 2010). Additionally, the high prevalence of sexual violence is troubling; 5,100 girls between the ages of 10 and 14 became pregnant in Guatemala as a result of rape in 2014, constituting one of the world's highest teenage pregnancy rates (Forsell, 2015). In the case of sexual violence, inegalitarian gender norms and machismo (the belief that men are superior to women and that women should fulfill traditional gender roles) perpetuate the pattern, making it a norm in Guatemalan culture (Gibbons & Luna, 2015).

As a response, an NGO in rural highland Guatemala has implemented a sex education program in the schools located around Lake Atitlán. Students are in 5th primaria (5th grade), 6th primaria (6th grade), 1st básico (7th grade), 2nd básico (8th grade), and 3rd básico (9th grade). The program gave surveys to the students in the program to evaluate their sexual knowledge, attitudes about gender roles, and attitudes about sexual rights at four different time points: before the program had started, after one year of the program, at the start of the second year, and at the end of the second year. The present study for Honors in Psychology investigates the effectiveness of this program by evaluating growth in sexual knowledge as well as the shift from less egalitarian to more egalitarian attitudes.

Forsell, L. (2015, November 12). Children who have children: Guatemala's teen pregnancy problem in pictures. Retrieved from <http://www.telegraph.co.uk/women/life/guatemala-children-who-have-children/>

Gibbons, J. L. & Luna, S. E. (2015). For men like is hard, for women life is harder: Gender roles in Central America. In S. Safdar & N. Kosakowska-Berezecka (Eds.), *Psychology of Gender Through the Lens of Culture* (pp. 307-325). Switzerland: Springer International Publishing.

Samandari, G. & Speizer, I. S. (2010). Adolescent sexual behavior and reproductive outcomes in Central America: trends over the past two decades. *International Perspectives on Sexual and Reproductive Health*, 36(1), 26-35. doi:10.1363/ipsrh.36.026.10

“NOTHING COMES BETWEEN ME AND MY CALVINS”: SEX, CELEBRITY, AND YOUTH IN CONTEMPORARY AMERICAN ADVERTISING

Katie Hill

In 1981 Brooke Shields became the face of Calvin Klein Jeans. Her provocative poses launched a debate about celebrities, sex, and youth in advertising that still remains today. Using Calvin Klein ads from the last four decades, I investigate the culture of sexuality in American advertising, particularly how displays of masculinity and femininity are signified on celebrity bodies. To what extent do these ads reveal changing notions of sexuality in America? Are displays of the body in advertising sexual objectification, or merely good marketing? To put it simply, why does sex sell?

My presentation examines the over-sexualization of the body in contemporary advertisements and their contribution to contemporary American culture. Calvin Klein is a classic all-American fashion company, whose iconic black and white images are universally recognized. CK ads have sparked debate and controversy for generations, and yet the company has never backed down from their signature marketing. I look at some of the most infamous Calvin Klein campaigns including those that feature Brooke Shields, Mark Wahlberg, Kate Moss, Justin Bieber, and Kendall Jenner.

This project pulls from my interdisciplinary academic pursuits, incorporating research and information from Media & Society, Sociology, History, and Gender Studies, in addition to American Studies.

EMERGING GENRES IN ELECTRONIC DANCE MUSIC

Peter Hoeller

I will be exploring modern trends and stylistic projections within the genres of modern Dance and House music, as it manifests itself through the new contemporary internet-based genres of Future Funk and Vaporwave. My discussion will hinge on two different historical periods for this music, the first being the Dance/House wave of the 1990s and 2000s that will represent the “older” generation, and the current generation of artists making music under these new genres, who first began appearing around 2011. Artists whose work I will draw upon from older generation will be Daft Punk, Cassius and Justice, whose legacy and style directly influenced the current generation. Artists of this new generation include such names as Macintosh Plus, Luxury Elite, Saint Pepsi and Desired.

My theoretical analysis of these artists and their music will be divided into three main categories; rhythm, formal structure, and the use of sampling. Rhythm will be placed in contrast with Mark Butler’s ideas on diatonic rhythms. The formal structure of this music revolves heavily around the idea of groove and accumulation, which Mark Spicer’s writings will help explain. The use of sampling is a prominent fixture across the work of these artists, and this concept can be further explained through Rebecca Leydon’s concepts of style topics. In addition, the concept of texture within this music will remain present throughout these discussions of rhythm, formal structure and sampling.

The genres of Future Funk and Vaporwave occupy an interesting landscape within electronic-based dance music, as they blossomed and were developed solely through the Internet, with no ties to geographic locations in the real world or within a certain demographic. This status within the dance music zeitgeist brings with it the potential for one to chart this genre’s projected course into the future, with the possibility for these “underground” styles and genres to start appearing in more well-known, mainstream areas of popular music. The unraveling of these new styles may both reveal how deeply rooted they are in the past generation, and subsequently be their undoing.

THE PHILOSOPHY OF PUNK

Peter Hoeller

My project and research seeks to define the absolute philosophy of punk music, while documenting its problematic relationship with consumer society. Punk as a style has been misunderstood for generations since its inception during the later part of the 1970s. Even after its initial creation, it imploded under its own weight and as an immediate reaction birthed the styles of post-punk and new wave in music, which gained huge mainstream success between the late 1970s and the 1980s. Throughout its existence, whether at the forefront of musical trends or on the fringes of acceptable society, punk has maintained a troublesome relationship with commodity culture and the concept of The Spectacle (as described by Guy Debord). Through this relationship, a true definition of punk as situated within the musical zeitgeist is difficult to perceive. This project serves to record in an absolute and accessible manner the true nature of what it means to be punk.

I will be exploring the many bands and artists associated with the genre of punk music, primarily during the late 1970s and subsequently its early origins from years before and its immediate offspring in the years after its creation. In particular, I will spend a significant amount of time using John Lydon (lead singer of The Sex Pistols) to contextualize punk's placement in relation to such concepts as McDonaldization, Commodification, and The Spectacle. Through this conversation, I hope to demystify conventional and modern ideas that may be associated with punk.

COCA-COLONIZATION: THE TRANSFORMATION OF POP MUSIC AND COMMERCIALS

San-Fan Hong

This project will examine what causes the blurred boundary between commerce and music with a focus on Coca-Cola commercials. Coca-Cola's commercial "I Would Like to Teach the Word to Sing" became a huge hit in the 1970s, and Coca-Cola is still leading the commercial industry with its creative use of music.

The project will draw from Stromberg's theory on the impacts of celebrities in consumer society to explain the role of an artist and his/her song in commercials and pop culture and Baudrillard's system of simulacrum and simulations to interpret the association of symbolic value, identity, and emotional experiences. The project will also examine the similar characteristics shared by original commercial music and pop music, and apply Bakhtin to discover the false dialogic effect music creates in commercials. The findings will include how Coca-Cola uses music in its commercials to create emotional experiences and dialogic effect, promotes products through artists, produces its own commercial music similar to pop music to make the boundary between the commerce and music blurred.

These changes take place under counter culture and economic development, and they are interrelated to our view on the society and our identity. This project will help the society realize that these four ways make commercials operate through mechanicals and if we are more aware of the impact of commercials and music, we will be able to fully choose who we want to be.

- Baudrillard, Jean. "Consumer Society." *Selected Writings*. Ed. Mark Poster. 29-60. Print.
- Baudrillard, Jean. "Symbolic Exchange and Death." *Selected Writings*. Ed. Mark Poster. 119-148. Print.
- Baudrillard, Jean. "Simulacra and Simulations." *Selected Writings*. Ed. Mark Poster. 166-183. Print.
- Stromberg, Peter. "Elvis alive?: The ideology of American consumerism." *The Journal of Popular Culture* 24.3 (1990): 11-19.
- Todorov, Tzvetan. *Mikhail Bakhtin: The Dialogical Principle*. Vol. 13. Minneapolis: U of Minnesota, 1984. *Google Books*. Manchester University Press. Web. 9 Mar. 2016

A SOLUTION TO UNEMPLOYMENT

Andrew Hopkins

The “Employer of Last Resort” (ELR), as developed by Hyman Minsky and L. Randall Wray, is a government program that seeks to provide a job to all those who are seeking one.

This project was conceived from two crucial components of the American capitalist economy: the never-ending debate between Democrats and Republicans about the role of the federal government regarding the social safety net in this country, and the tendency of capitalism towards boom-and-bust bubble cycles that have become increasingly prominent since 1980. These bubbles can be specified as intense speculation on an asset that generally involves consumers taking on more debt in order to acquire more of the asset. In extreme circumstances this can lead to mortgagors refinance existing debt using the asset in question as collateral. Historically, these bubbles were first seen in Holland with the “Tulip Mania,” and more recently in the dot-com bubble and the housing market crash followed by the Great Recession.

This concept of an employer of last resort is rooted in the 1930’s employment programs implemented to combat the Great Depression. The results are highly theoretical, as ELR has never been implemented in its entirety, but the achievements by the aforementioned 1930’s programs speak for themselves. The significance of this program, in theory, is that it could end unemployment and decrease macroeconomic volatility while simultaneously saving the government money.

COUNTER-TERRORISM BY COUNTING TERRORISM

James Hull

In this paper, I attempt to provide a mathematical model of two interconnected populations, a terrorist group and an anti-terrorist, or government, population. Using well known modeling techniques such as logistic growth and the Allee effect with slight modifications, I am able to fashion a system of differential equations where the behavior of each group is dependent upon the other. I then add stochastic effects to account for randomized events such as terror attacks. Using my model, I look to find optimal times and methods for the government to act in such a way to minimize the growth of the terrorist group. I hope to use this as an early trial of how to use mathematical models to direct government actions to suppress terrorist organizations.

Dennis, Brian. "Allee effects in stochastic populations." *Oikos* 96.3 (2002): 389-401.

Tsoularis, A., and J. Wallace. "Analysis of logistic growth models." *Mathematical biosciences* 179.1 (2002): 21-55.

CONSPICUOUS EMULATION: THE THEORETICAL IMPLICATIONS OF THE PROSUMER CULTURE OF FACEBOOK AND YOUTUBE

Garrett Janssen

With every “like,” every “share,” and every posted selfie, users create data, but does that data matter? With the rise of the Internet, social media, and “big data,” the strict binary between economic notions of producer and consumer have faded. With every click, Internet users knowingly and unknowingly submit data about their preferences. Since this data has value for advertisers, users no longer simply consume, but they produce as well—they are prosumers. The prosumer knows no class, no race, and no nation, and, despite their undeniable significance in economic markets today, mainstream economics has little to say about prosumers and the immaterial labor they provide.

Where neoclassical economics has been largely silent, Marxian economists have applied their theories to the prosumer. Marxists argue that exploitation and alienation not only exist in these new markets and cultures but also thrive. With Facebook exploiting user privacy for data and YouTube alienating content providers to new platforms, why do prosumers continue to use those platforms and supply free data? Drawing from institutional economics’ theory of emulation, I suggest that these social media platforms provide public areas for users to emulate cultural icons, ideals, idols, and ideologies. Far-reaching social networks such as Facebook and YouTube provide platforms for identity emulation for the most exposure. Our consistent and incessant emulation means that our virtual identity carries as much if not more weight than our real one.

THE ART OF BEING CREATIVE

Garrett Janssen

What if, instead of the typical social outcasts, two popular high school students told a coming-of-age story? The novel that I've been writing and editing for my Honors Project in English dives headfirst into that question. For my two main characters, Dylan Colby and Raine Stratton, popularity is just another meal on their plates—plates loaded with sex, alcohol, fractured families, and single parents. As the two renegotiate their lives, they learn how to communicate to themselves, each other, and those around them.

What is it like living with characters for years at a time? What happens when a character talks to you on a bus? How do you handle a character who cries when you do not pay enough attention to them? What do you do when a character will not reveal their backstory? It is an art form in itself to live captive to creativity, and my presentation explores the intimate relationship between music and my creative process. Every scene has its song and each character has their sound. I live enveloped by their soundtrack, and sometimes that soundtrack is missing a beat or two. Revising the text on the page is as much a revision in the soundtrack. By living with these characters for two years, they have informed my view of the world, and I hope they can inform yours.

ELECTRICITY SCENARIOS AND CARBON EMISSIONS IN WASHINGTON STATE

Andrew Kane, Elizabeth Knorr, Elizabeth Lunderman, and Kathryn Mendez

The Clean Power Plan (CPP) of 2015 is aimed at combating anthropogenic climate change caused by carbon emissions. Carbon dioxide is the leading greenhouse gas (GHG) pollutant, accounting for 84% of U.S. GHG.¹ U.S. power plants account for nearly 40% of U.S. carbon dioxide emissions.¹ Prior to the CPP, U.S. power plants were able to release unlimited amounts of carbon dioxide into the atmosphere without restrictions. The main focus of the CPP is to provide a target for states to reduce carbon emissions from their power sectors to levels below 2005 standards by 2030, allowing states to independently determine strategies on how to accomplish this goal. Although the Supreme Court rulings have halted implementation of the CPP until legal challenges are resolved, our project focuses on examining three distinct scenarios for the state of Washington to meet below 2005 carbon levels as mandated by the CPP.

Our research looks at the energy assets, resources, policies, and culture of Washington, to develop potential and effective strategies for meeting the CPP 2030 goals. Our first scenario will be structured around the “business as usual” philosophy, where no changes to Washington’s policies will be implemented to their electricity sector. Our second scenario will address specific requirements that would be essential in order to satisfy the CPP 2030 goals. Lastly, our third scenario is a more radical approach to drastically reduce carbon emissions from the electricity sector in order to create the most efficient and environmentally responsible electricity system in Washington.

“Learn About Carbon Pollution From Power Plants.” EPA: Clean Power Plan. United States Environmental Protection Agency. 3. Aug. 2015. Web. 20 Feb. 2016.

WHO IS MOST LIKELY TO SUPPORT A GENEVA PUBLIC LIBRARY TAX INCREASE?

Dimitri Kaye

I seek to find the socio-economic characteristics of the people most likely to support the Geneva Public Library tax increase: What type of people are most willing to pledge support for the tax increase? The vote is on May 17th, and I am interested in discovering what social characteristics define the people most willing to support the \$0.16 increase. I am working with one of the directors at the Geneva Public Library, conducting anonymous electronic survey research. More specifically, we have worked together to set up a file transfer of emails from all current and previous members of the library. We will use approximately a pool of 1,000 possible respondents and aim to receive about 300 responses. The quantitative data results will then be aggregated in SurveyMonkey, where I can then assess and utilize them in a meaningful manner.

I hope to break the stereotype that only the more affluent individuals will be willing to support the tax increase. It is hypothesized that the families that need the services provided by the Geneva Public Library the most, that even regardless of responsibility to property taxes, will be most likely to support a tax increase. My purpose is to work with the Library director and the Library in an effort to better understand the social characteristics of individuals most likely to support or oppose the tax proposal. In addition, we will spread the word of the upcoming May 17th vote.

RE-INVISIONING REV: A COMPREHENSIVE LOOK AT NEW YORK STATE'S ELECTRIC POWER GENERATION

Ryan Kertanis, Dominic Sindoni, Ryan Tinklepaugh, and Tim Young

Electric power generation in the United States is both inefficient and hurtful to the environment. The Clean Power Plan is a set of Federal regulations and guidelines with a goal of reducing CO² emissions. The goal of this project is two-fold; the first step is to analyze the Clean Power Plan in relation to New York State and to determine the ability of the state to implement the plan. The second step in the project is to completely reimagine the way in which New York generates its electric power.

Currently New York State has a progressive approach to these Federal regulations, mandating stricter guidelines for CO² emissions than the Federal plan. We will analyze the economic, environmental and social issues involved with New York State's current implementation plan. This analysis will give us a useful baseline for the creation of our own radical energy plan. By radical we mean to completely reimagine the generation, transfer and use of electricity in New York state. This plan will maximize both energy and economic efficiency as well as eliminating greenhouse gas emissions and other environmentally detrimental practices. GIS mapping and analysis as well as consultation with various energy experts both on and off campus will be among the several research methods used.

THE HWS CLASSROOM THROUGH STUDENT EYES: GENDER COMPOSITION OF COURSES AND MICROAGGRESSION POTENTIAL

Alana Kilcullen and Gabriella Mason

This project is an individual study within a larger series of research projects focused on the presence and effect of microaggressions at Hobart and William Smith Colleges. Throughout our time at Hobart and William Smith Colleges, we experienced classrooms in which we identified as members of the minority or majority gender in classrooms where a significant portion of students present as men or women. These experiences stood out to us as places in which environmental microaggressions have the potential to operate. Microaggressions are “daily verbal, behavioral, and environmental indignities, whether intentional or unintentional, that communicate hostile, derogatory, or negative...slights and insults to the target person or group.”¹ These experiences led us to the following research question: “How does the perceived gender composition of a college classroom impact experiences for individual students of different gender expressions in that classroom?”

Approaching this topic through the lens of microaggressions, our research seeks to utilize the individual experiences of Hobart and William Smith students from a sample of the academic disciplines available at the colleges. We collected data via individual semi-structured interviews from twelve students. Ultimately, our goal is to understand this situation in more detail and identify ways that students might manage the student learning experience in classrooms where a significant proportion of students present as men or women.

¹ Sue, D. W. (2010). *Microaggressions in everyday life: Race, gender, and sexual orientation*. John Wiley & Sons.

INTERVENTIONS ON ISOLA TIBERINA

Annie Langlois

While studying abroad in Rome in the Spring of 2015, I took a visual analysis sketching course, investigating Isola Tiberina, an island in the Tevere River that I walked past daily to get to school, but noticed was underutilized by both the locals and tourists.

Currently the island houses a church, a hospital and various vendors. The goal of my project was to create interventions that would invite and encourage more people to make use of this space by making it easier to access and more enjoyable once there. I illustrated these projects through sketching and water coloring.

My design interventions would add a staircase to a bridge that touched the island, allowing easier access to more people. They would create seating near the water that is made of grass and slanted at the right angle to lie down and relax with a book or sleep. The hospital is situated in such a way that it has outdoor space that is private, but is overgrown and only used for utilities; moving the utilities and clearing the space would create a private garden for patients and hospital staff to enjoy the outdoors.

If these changes were made in real life, they could revitalize this area, create new vendor opportunities, and rejuvenate the island into a place both tourists and locals would use to relax away from the hustle of central Rome.

MATRIX ISOLATION AND THEORETICAL DETERMINATION OF FURAN-CONTAINING CLUSTERS

Schuyler Lockwood

Furan (C₄H₄O) is a five-membered heterocyclic organic compound that has widespread application as a synthetic starting material in organic chemistry. More importantly, furan is perhaps the most fundamental structure of the ubiquitous class of molecules known as aromatic heterocycles. Many of these heterocycles are found in petroleum reserves and are harmful to diesel engines and the environment by way of diesel “sooting” during fuel combustion.

Due to its importance as a model system for basic science, the furan molecule has been extensively probed for its elementary electronic and vibrational properties. However, little is known still with regard to the forces that lead to furan’s molecular clustering, or “clumping together.” The presence of two equally probable locales of interaction in furan’s structure (the π -system and oxygen lone pair) makes for a potentially interesting intermolecular competition. The clustering process is important to study at a basic level in order to better understand and regulate the intermolecular forces at play bulk system phenomena (e.g. sooting processes).

Drawing on attention to intermolecular forces, the goal of my research is to uncover the ways in which furan most favorably interacts with itself and with other molecules relevant to the petroleum combustion environment. I use 10 K matrix isolation FTIR spectroscopy to “see” these molecules and clusters in their most energetically favorable forms. This technique probes how molecules vibrate, both as a lone molecule and as a cluster. To aid my spectral assignments, I also perform ab initio calculations to determine the theoretical geometries and vibrational structure of an array of furan-containing clusters.

RADIOHEAD: BAND OR BRAND?

Micaela LoConte

This project looks to analyze and evaluate Radiohead to determine whether their efforts to circumvent commodification are successful or not. Through the lenses of Debord's "spectacle and alienation," Baudrillard's "simulation and simulacrum," and Lacan's "gaze," I will analyze three albums released by Radiohead in their sounding music as well as their marketing strategies. Each album employs different strategies to expose their place in commodity using distorted sounding music, the inability to release singles from the album for radio play, as well as using a pay-what-you-want marketing strategy. This analysis will exhibit the ways in which Radiohead has gone about challenging consumerism, and their place within it, while evaluating the effectiveness and subversiveness of these efforts.

Debord, Guy. *The Society of the Spectacle*. New York: Zone, 1994. Print.

Rossolatos, George. "Fetish, taboo, simulacrum: An applied psychoanalytic/semiotic approach to the experiential consumption of music products."

Poster, Mark. *Jean Baudrillard: Selected Writings*. Oxford: Basil Blackwell, 1988. Print.

THE LIMITS OF NEO-RIEMANNIAN THEORY IN ANALYZING POP MUSIC

Eli Lubick

Popular music theory from the mid-20th century until now is largely analyzed by means of transformational theory, a departure from classical harmonic structure, the emphasis of which is the smoothness of the voice leading and the parsimony, or “closeness” of the chords. While the chords themselves can be thought of as smooth and close, many artists are able to employ the transformational technique to provide a sound world that is everything but smooth and close.

In Guy Capuzzo’s article “*Neo-Riemannian Theory and the Analysis of Pop-Rock*” he analyzes “Morning Bell,” and “Creep” by Radiohead. He uses this theory to emphasize the parsimonious harmonic and voice-leading movement of these songs, and how this technique leads to a smooth sounding progression. In Cox’s “*The Acoustic Fact and Embodied Listeners*,” he describes the five elements of the acoustic fact, timbre, duration, strength, intensity and pitch that Capuzzo largely neglects. Together Cox and Copuzzo offer an effective lens on the transformational technique.

In re-examining “Morning Bell” and “Creep,” it is clear that the “creeping” ascending chromatic line in “Creep” is a salient aspect of the song, but the effect of the underlying transformational harmony is a slave to the piercing crunch of the electric guitar when the chorus arrives and the tenderness of it when it exits. Similarly in “Morning Bell” the progression is smooth and parsimonious, but the meter and Yorke’s vocal phrasing complement the harmony to provide a sound world that feels constricted and paranoid, which suggests that examining pitch alone can only go so far, and if we are to fully analyze these songs it is necessary to explore the other musical elements employed.

METROPOLITAN GENEVA: A CASE STUDY OF LINDEN STREET

Rebecca Luborsky

Interviews conducted with downtown storeowners have suggested that a new type of development is taking place downtown: Linden Street has been structured to promote sophisticated businesses, yet remains an epicenter for local pride. In this context, Geneva's business development can be attributed to the success of places like Linden Street and has visibly changed the consumption landscape of downtown.

I collected preliminary data through ethnographic research, census reviews, and an 37-year historic analysis of establishments downtown. My conclusion is that Geneva is undergoing a change in its downtown landscape as a result of the success of Linden Street. If so, what will the future downtown Geneva look like?

THE FAILURES AND RESOLUTIONS OF BEAR STEARNS AND LEHMAN BROTHERS

Taran Lucker

Investment firms Bear-Stearns and Lehman Brothers were two major casualties of the 2008 financial crisis. These early failures provided a model for what went wrong in this crisis that can still be felt today in the form of bankruptcies, millions of foreclosed homes, increasing unemployment rates, and more.

I plan to look into the years leading up to the failures of Bear-Stearns and Lehman Brothers, analyzing their rising fragility and risky investment practices. I will apply Minsky's theory of financial instability when looking at crucial errors made by both firms and how they contributed to the financial crisis. I will also explain why only one of these firms was bailed out by the Federal Reserve, and how their hazardous and unsustainable market decisions have affected post-2008 regulations and standards.

I plan to use multiple texts from Randall Wray and Hyman Minsky along with information from the Levy Institute website and the Financial Crisis Inquiry Commission website. I hope to find a model that has developed as a result of these two failures in order to prevent other firms from going down the same road.

THE GHOST OF THE VIETNAM WAR AND ITS LASTING IMPACT ON THE AMERICAN PSYCHE

Sarah MacDonnell

*“In truth war is also beauty. For its horror, you can’t help but gape at the awful majesty of combat... Like a killer forest fire, like cancer under a microscope, any battle or bombing raid or artillery barrage has the aesthetic purity of absolute moral indifference.”*¹

Other than the Civil War, the Vietnam War was the most disruptive conflict in American history. Its ghost has dominated the national landscape and still haunts the American imagination. This quote from Tim O’Brien’s *The Things They Carried* illustrates an honest contradiction about war that contributes to the overwhelming ambiguity of the Vietnam experience.

My independent study is an exploration of fundamental Vietnam War texts, both literature and cinema, to gain a greater understanding of the war’s crippling nature and lasting repercussions. Specifically, my project objectives are to develop an understanding of the history of the event, to explore and compare a diversity of war experiences and perspectives, and to think critically and analytically about the nature of war and its effect on individuals, society, and humanity. I chose to examine Tim O’Brien’s *The Things They Carried*, Michael Herr’s *Dispatches*, Francis Ford Coppola’s *Apocalypse Now*, and Michael Cimino’s *The Deer Hunter* due to their exemplary depictions of the alienating and equivocal nature of war. Additionally, I am conducting an interview with a Vietnam War veteran. My research will culminate in two major essays and a multimedia production detailing my journey through this tangled web of books, film, interviews, and accounts.

¹ Tim O’Brien, *The Things They Carried* (New York: Houghton, 1990), 77.

FORD, FEMINISM, AND THE FIRST LADYSHIP: HOW BETTY FORD'S FEMINIST ACTIVITIES WON THE HEARTS OF THE AMERICAN PUBLIC

Morgan Mayer

How opinionated can the First Lady get before we stop loving her? If you're Betty Ford, who assumed the title of First Lady through extreme and unusual circumstances, the answer is very. Betty Ford was well known for her involvement with the Second Wave feminist movement, especially with regards to the Equal Rights Amendment, which would guarantee equality between the sexes. Despite this radical stance, Ford became a popular figure, delivering speeches and words of encouragement and winning awards, such as the GOP's Woman of the Year.¹ Ford could be viewed as a feminist icon for her work to advance the movement while serving as First Lady, and her involvement should not be forgotten.

This project aims to explore how Betty Ford worked to push a feminist agenda during her time in the White House and how the public reacted to such a radical stance. I will be drawing from speeches that Ford delivered, newspaper articles talking about Ford's public appearances and reactions to her views and successes, as well as Ford's own personal narrative, an autobiography that was released soon after the Fords left the White House. I aim to examine not only the public's reaction to Ford, but her reaction to the public as well. I use her speeches and autobiography to try and assess her strategies for addressing the public.

¹ Thomas Ronan. "Betty Ford Is G.O.P Woman of the Year." *New York Times*, March 21, 1976, 1st ed. Accessed February 8, 2016. Historical New York Times.

ETHNOGRAPHY OF ROOMMATE CULTURE AT HWS

Bryanne McArdle

Hobart and William Smith Colleges is self-described as a “residential campus” where most students live in the schools’ housing and thus have a roommate or group living situation at some time during their academic career. Today in higher education, an increasing amount of individualism has been attributed to roommate issues occurring more regularly.

Using ethnographic, public, and historical research, along with my personal experiences, I have been examining roommate culture on campus for two semesters as part of my project for Honors in Anthropology. My goal has been to determine whether HWS students had a prescribed set of beliefs and cultural practices created in the colleges’ housing environment that resulted in certain roommate situations. To do so, I conducted interviews, surveys, and social mapping of physical spaces. These techniques allowed me to examine the questions like whether the buildings or communities have any impact on roommate culture, who chooses to live with whom, how the rooms are set up, whether class year plays a role, and whether outside forces, such as Residential Education, play a role.

My findings suggest that there are a series of beliefs and patterns on part of the students and staff that contribute to perpetuating certain situations with roommates and forming HWS roommate culture. These beliefs and the resulting culture are built upon expectations and forces external to campus life, but affect it nonetheless. My hope is that this study can be used by both students and staff, to better understand the beliefs students have about housing and to debunk myths and increase transparency between the two.

LOOKING BACK, MOVING FORWARD:
REVAMPING *SUCCESS FOR GENEVA'S CHILDREN*

Erica McLaughlin, Danielle Mueller, and Ryan Mullaney

Our project explores various demographic differences between Geneva, NY, the rest of Ontario County, and New York State. We are producing an updated data booklet for the local nonprofit *Success for Geneva's Children*.¹ This booklet has been used to secure grant funding for roughly two dozen community service provider and thus serves a vital role in maintaining the health of Geneva's underserved.

The research was conducted in two parts. First, we individually contacted 20 different Geneva community members, representing 18 different public and private organizations via email, phone conversations, and group meetings. Once we reached an understanding of what kind of metrics the community members wanted to see in the new version of this booklet, we used secondary analysis of archival data in order to update and recreate the booklet. Our goal was to make this booklet an accessible and organized document in order to foster future grant attainment for community and service organizations.

Our interest in this project grew out of various means of engagement with Geneva, especially through its public schools and pre-kindergarten centers. Throughout our four years at HWS, we have each worked or volunteered with Geneva youth and we are invested in continuing and expanding resources available to them in order to bolster their chance of success. We see the *Success for Geneva's Children* data booklet as a clear way to give back to Geneva.

eDNA AND THE BLOODY RED SHRIMP: INVESTIGATING ALTERNATIVE METHODS FOR DETECTING AQUATIC SPECIES

Kathryn M. Mendez

The goal of my project was to create new methods for detecting the Bloody Red Shrimp (*Hemimysis anomala*), which is a non-native shrimp-like organism that has recently become established in the Finger Lakes region. This species is nocturnal and prefers to live in small, rocky crevices, so current methods (using nets or traps) have limited reliability and require collection in the middle of the night.

I investigated the use of environmental DNA for detection of *H. anomala*. All species shed DNA. DNA from skin tissue, urine, feces, and any other remnant of a species are left behind in the environment they inhabit. Detection methods via eDNA attempt to extract those bits of DNA. By developing a technique to detect eDNA from *H. anomala* in lake water, researchers could simply use water samples taken during the day to detect the spread of this non-native species. The majority of my research has focused on the behind-the-scenes science to develop an eDNA approach. The most difficult aspect of using eDNA is finding primers that match only the DNA from *H. anomala*. In my ongoing research, I am working to determine the best primer to most accurately detect *H. anomala* without detecting other aquatic species.

RACIAL HOUSING JUSTICE IN ATLANTA, CAPE TOWN, AND JOHANNESBURG

Domenic Merolla

Many cities in America and South Africa have faced paradigmatic changes since they shifted from apartheid and formally segregated cities to their current highly diverse, quickly growing forms. With those paradigmatic changes has come the necessity for a reorientation of planning principles and housing policy to combat the equity and justice issues of the past. I seek to illuminate the new ways in which separation and inequality are perpetuated along racialized lines in both countries, focusing on Atlanta in the United States and Johannesburg and Cape Town in South Africa, cities that each were segregated historically and currently have predominantly black populations.

In each, gentrification, blight, public housing, and income inequality now form a modern iteration apartheid/segregation's housing injustice. I discuss the impact of the social organizing, policy advocating, and other grassroots approaches that activists have taken to combat housing injustice in these cities. Ultimately, I aim to propose a policy, grounded in the work already being done by scholars, planners, and activists in these cities, that will at least combat the vestiges of segregation and apartheid that, thanks to current housing planning and policy practices, still remain.

CONFLICT TRANSFORMATION AND MUSIC IN THE ISRAEL/PALESTINE CONFLICT

Colleen Moore

My project explores the question “How can music be used to support peace processes in conflict transformation?” I use the Israel-Palestine conflict as a case study to investigate the application of music to conflict transformation. My interest in this project stems from my love of music, my NY6ThinkTank project on social justice and music last spring, and my activism for Palestinian human rights.

The West-Eastern Divan Orchestra provides one model of this relationship in relation to the Israel-Palestine conflict. Upon investigating, there are problems with this model: it is Orientalizing, hegemonic, and fantasy-driven. After evaluating the work of the West-Eastern Divan Orchestra, this paper concludes with a suggestion of how music should be incorporated.

Music does have a place in conflict transformation and it is case-specific, and music and social justice have historically been intertwined. My main findings are significant because these models can be applied to other conflicts and art forms.

BLACK SCHOOLS, WHITE CASH: HOWARD FULLER AND THE RACIAL POLITICS OF NEOLIBERAL EDUCATORS

Ryan Mullaney

In this project for Honors in Public Policy, I examine the position of contemporary Black educators from a historical and theoretical perspective. Through a case study of Black nationalist/Pan-African education reformer Dr. Howard Fuller, I contend that contemporary Black educators are caught in a peculiar position, wherein reliance on white economic capital renders collective Black empowerment through schooling impossible. I juxtapose individuated, neoliberal conceptions of Black schooling with the work of prior generations of Black education activists, for whom schooling was a collective, anti-racist struggle.

I establish this historical basis by examining the efforts of Southern Black communities to create racially just education opportunities from 1868-1932. Overall, I conclude that movements to establish independent Black schooling systems, while limited in scope, grew from--and imparted--a racially liberatory ethic. Oppositionally, the involvement of Northern white philanthro-capitalists undermined the radical mission of these Black institutions. I contextualize Fuller's own work as grounded in the liberatory spirit of the former sort of movement, but as also constrained and de-radicalized by his reliance on white economic capital.

As a conclusion, I offer up a self-critical reflection on the process of writing this piece as a white undergraduate. I explore how my critique of Fuller is situated within both (and neither) feminist Marxist and critical race traditions, as well as how it is situated within my own life and activism. I share my own discomfort in writing this project as a way to understand how differently-located thinkers and actors can productively engage in anti-racist, anti-capitalist struggle.

STUDENT AND FACULTY PERCEPTIONS REGARDING ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

Kendra Napierala

Because of the need to deal with microaggressions in our society more generally and based on my experiences asking for and receiving accommodations in an academic setting, my MAT project focuses on students' and faculties' experiences with disability. In particular, I was interested in the extent to which students and faculty understand their legal obligations regarding accommodations for students with disabilities and how that affects their experiences requesting and/or providing accommodations. Based on my findings, I will create a video to inform others of the experiences of students and faculty on this campus regarding disability, how it is similar or different from other campuses, and what we can do to alleviate future microaggressions involving accommodations for students with disabilities at HWS.

LET'S TALK ABOUT SEX BABY! A COMPARATIVE ANALYSIS OF SEXUAL EDUCATION BETWEEN THE U.S. AND SOUTH AFRICA

Afrika Owes

In this project, I compare sexual education on college campuses in South Africa and the United States. With the guidance of Professor Rimmerman, I conducted an independent study interviewing four campus staff members involved with sexual education. While studying abroad in South Africa, I noticed the differences and similarities in campus life amongst students, especially regarding sexual education and relationships. The history of South Africa and HIV contributed the open culture of sexual education and awareness of options for safe sex and services for free HIV testing. At HWS, discussions about sex were not as open; after the published article in the *New York Times*, the conversation has shifted from sex to consent.

At Rhodes University, I compiled an in-depth literature review about HIV/ AIDS education on South African Campuses. At HWS, I was able to conduct in depth interviews with one dean from each college, the Title Nine coordinator, and a senior staff member of Hubbs Health center. I used these interviews to determine the level of administrative involvement and perspective about where the responsibility for sexual education is administered on campus. I found that a lot of programming about sex has shifted from the dean's office to the Title Nine office and Hubbs health center. Both Hubbs and Title Nine agreed they both have a duty to educate about sex on campus, but had not worked together. The qualitative research allowed me to connect with staff and ask detailed questions about the campus and programming. Using the literature review and findings from these interviews, I was able to suggest future programming opportunities at both institutions at HWS and Rhodes.

As a student, understanding sexual education beyond consent and negative rhetoric is important. This research aimed to highlight the importance of a multi-faceted sex education that addresses safe practices, positivity, and intersectional approaches on college campuses.

THE FED'S DIRTY LAUNDRY: ETHICS AND THE AFTERMATH OF 2008

Nicole Pastor

In 2008, the world faced the most severe economic crisis since the Great Depression. Rooted in the U.S. housing market and nearly three decades of increased financial innovation that introduced new tradables to markets, the crisis quickly spread to the global financial sector. In response, the Federal Reserve conducted multiple rounds of Quantitative Easing, a monetary policy involving its purchase of government bonds and mortgage-backed securities.

What was originally intended to be an effective policy to address the most severe economic problem areas soon spiraled out of control, as Wall Street executives exploited the availability of essentially free capital. The Fed began buying other distressed assets, even those with little to no risk of widespread default. Behind closed doors, large private loans were given to Wall Street executives and their wives to make essentially risk-free investments in things like student loans and commercial real estate.

My investigation, in the general form of an exposé, will examine the effectiveness and ethics of the measures taken by the Fed to stimulate recovery after the Global Financial Crisis. Ultimately, I will expose the influence of private-public partnerships in the Fed's actions and discuss the implications of these actions for future crises. My motivation for this work stems from my interest in both Economics and Politics, and more specifically, my interest in the lack of transparency of financial and political institutions in this country.

ASSESSING DIFFERENCES BETWEEN LOCAL AND FEDERAL CRIME DATA

Ian Pattison

A well-established body of criminological research supports the claim that observable discrepancies between local and federal crime statistics are inherent to the design of the FBI's official data collection. Data on known criminal offenses passes first through local police departments where it is organized and sent to the state. State officials then check if all cases included in the local report match FBI standards of classification and scoring. Finally the FBI receives the crime reports and posts the reports on their online Uniform Crime Reporting database.

Many literature critiques the official data constructed by the FBI's UCR program; however actual evidence of these dramatic discrepancies is more difficult to obtain. Existing research on the UCR database suggests that, among other possible causes, the interpretation of ambiguous criteria used to define certain offenses can often account for the observed differences and decreases that occur as the data is processed.

With the good will of the Geneva Police Dept., I was able to receive the data necessary to perform a comparative, archival analysis on local, state and federal crime reports on Geneva City. I expect that my findings will support the broader trend outlined by previous literature.

RETHINKING THE AUTOMOBILE FOR 2016: POTENTIAL THROUGH DESIGN

Edward Pressman

Over the last one hundred and fifty years, the automobile given rise to a mobile human society, where ones ability to move is no longer limited to how far he or she can walk in a day. Yet there are significant flaws in the automobiles we have today: internal combustion engines limit the design possibilities, and cars emit toxic fumes that harm both the environment and people's individual health.

This project's goal is to explore the possibilities for the future of automobile design. This opportunity, born out of the restructuring of the car through the arrival of electric motors, allows cars to look and function in a way that is dramatically different from the vehicles we know today. The possibilities for changing the automobile through the use of electric drive are not limited to aesthetics alone; the functionality of the car and the experience of driving have the opportunity to change significantly through the integration of new technologies. Overall, in this project I rethink the interaction between humans and the automobile through the design of a range of concept vehicles that meet a variety of aesthetic and functional purposes.

PREVENTING A GENERATION OF WINDOW SHOPPERS

Alex Quinn

The financial crisis of 2008 collapsed our economy by uprooting our financial systems and frightening consumers. My project seeks to analyze how the collapse of the housing market directly affected the commercial real estate and brand investments. My goal is to explore the similarities and differences in store prices, financial investments, and construction leases for commercial companies. Did businesses succumb to extreme losses that forced store closures as a response to the housing collapse or was the commercial real estate market a factor in collapsing the economy?

I anticipate finding a consistent trend from the collapse because of the decrease in assets, cash flows and investments. I will address counter opinions on the underlying factors by analyzing different demographics across the country.

Customers need to buy rather than window shop so the business cycle may function efficiently. My research and policy proposals will create a framework that can regulate future market actions to prevent a collapse in commercial real estate.

MEASURING PREPAREDNESS FOR SCHOOL OF CHILDREN
AGED 0-5 IN GENEVA, NY

Michael Rahling and Randy Regner

Literature demonstrates that children develop their key non-cognitive skills in the early years of 3 to 5, critical years for kids to learn communication skills, interpersonal skills, and most importantly, language skills. Our project aims at examining surveys collected by Success for Geneva's Children, a community group with a desire to produce favorable outcomes for the local youth, ages 0-5, in the Geneva area. Our research will be exploratory in nature and our key question is focused on identifying potential problem-areas in a child's home-life that support existing literature on the development of both cognitive and non-cognitive skills.

We will be using these surveys to look at what young children are exposed to in their home-life such as communication with parents, experience with loss, and changing residences. Fifty five surveys have been completed by the parents of young children, which allows for our results to be statistically significant, and secondary analysis of these data will be our primary method. We hope these data could allow us to reveal discrepancies in the Geneva area that will ideally prompt agencies to act in providing more support in the form of assistance programs and a reallocation of resources.

MANAGEMENT VS. LEADERSHIP: EFFECTIVE METHODS

Joe Reale

Management and leadership are, while at times mutually exclusive, separate variables. The ability to manage and the ability to lead are essential elements to creating productivity and progress in society, yet both managers and leaders contribute to organizations and businesses differently.

This research study examines the tactics and techniques behind the managers and leaders in our community, highlighting similarities and differences, as well as determining the most effective, through a series of interviews with managers and leaders in the Geneva community and HWS community. The interviews will focus on the methodologies that contribute to the success of these individuals and their organizations. This determination is important towards a general understanding of a social phenomenon that is management and leadership, but also because it creates the ability to relay and teach these methods.

THE EFFECTIVENESS ON EARLY CHILDHOOD EDUCATION OF A MODEL CLASSROOM IN GUATEMALA

Kristin Ressel

The purpose of this study was to evaluate the effectiveness in preparing kindergarten students for first grade of a model classroom implemented in rural Guatemala. Students and their parents from both the model classroom as well as traditional classrooms were interviewed, and a thematic analysis was conducted.

Almost half of Guatemalan children quit school before 6th grade. One NGO in rural Guatemala works with local educators to maintain a “model” classroom preparing children for greater academic success. The model incorporates more hands-on activities, requires parents spend time in the classroom, and provides training to the teacher.

The current study for my Honors project in Psychology measures the socioemotional preparedness of children to begin primary school. Students ($n = 21$) and parents ($n = 21$) in the model classroom ($n = 42$), as well as students ($n = 21$) and parents ($n = 21$) in a non-model classroom ($n = 42$), participated via interviews. Among the results are that model classroom students felt more excitement ($t = -1.91, p = .06$) for school and their parents were more involved ($t = -4.15, p < .05$). The model classroom benefits the students and could be employed in other classes in the school and surrounding area.

DISNEY MOVIES, WOMEN'S GENDER ROLES, AND EFFECTS ON CHILDREN

Whitney Reynolds

Who in the U.S. hasn't watched a Disney movie at least once? For this project, I will be discussing women's gender roles and stereotypes as they are seen in the Disney movies *Snow White*, *Mulan*, and *Brave*. I will also be discussing how these movies have changed and adapted their female characters over time with reference to the history of feminism and how these three movies have progressed along with the changes in feminism and women's gender roles.

I will finally be discussing the importance Disney movies have on young children. Since children learn from watching and observing what they see, it is important to discuss the impact that certain representations, like those seen in these Disney movies, have on young children and their development. The way these female characters are shown in these movies will ultimately aid in the development of their views on gender and how women should act.

AQUAPONICS FOR HYPER-LOCAL SUSTAINABLE FOOD PRODUCTION: SOCIAL, COMMERCIAL, AND EDUCATIONAL APPLICATIONS

Jeffrey Rizza

Aquaponics is the combination of aquaculture and hydroponic plant production; the combination resolves the individual drawbacks of these isolated systems and creates many additional benefits, conserving water, energy, and land while maintaining a degree of scalability that makes it uniquely adaptable to a variety of circumstances. This project focuses on the specific application of aquaponics to some of these circumstances, including urban and rural food deserts, island nations, and personal- and community-scale food production.

In the fall of 2016 \$6,300 in grants were used to construct educational scale aquaponic systems on the Hobart and William Smith Campus and at the Hillside Children's Center. These systems are being used to teach students, faculty, staff, and community members about the benefits of aquaponic food production.

The HWS system is also being used as a pilot for a larger system capable of hyper-local food production for the Hobart and William Smith Colleges and Geneva communities; an aquaponic system located on the Fribolin Farm could offer hyper-local food production while simultaneously contributing to the community's carbon neutrality goal.

“GLHF:” A CULTURAL ANALYSIS OF ACCESS IN LEAGUE OF LEGENDS

Emily Saeli

This presentation embraces video game rhetoric and the worldview of gamers to explore relationships between players on the online video game League of Legends. League of Legends, or “LoL,” has been growing in popularity since its announcement in 2008. I perform a Digital Cultural Analysis and a Rhetorical Analysis of a variety of interactions on League of Legends in order to determine how accessible the game really is for minorities and women.

For a game that takes place online, theoretically open to anyone with an internet connection, the interactions between players and fans reveal often insurmountable barriers to entry for minorities. As E-sports like LoL continue to grow in popularity, it is important that we examine critically the way that players and fans communicate with each other in order to determine that all players feel that LoL can be an inclusive space.

HIDE YO' KIDS, HIDE YO' WIFE: THE RHETORIC OF PRIVACY, SAFETY, AND
THE ELECTRONIC FRONTIER FOUNDATION'S INCLUSION OF WOMEN IN
DISCUSSIONS OF THEIR OWN ONLINE RIGHTS

Emily Saeli

In discussions of personal safety, the idea of what it means to be a woman is often inexorably linked with the concept of vulnerability. Even institutions which are designed to promote fairness, like the Electronic Frontier Foundation, employ tactics in “fear creation” that rely on images of vulnerable women to convince viewers that their own personal safety is at risk. Such images promote harmful notions like the “damsel in distress” and exclude women from discussions of their own online rights, in this case as they relate to the NSA, in favor of their protection.

In this presentation, I examine the rhetoric of the EFF to determine how heteronormative ideologies of protection are used to stereotype and exclude women from discussions of their online rights and reinforce the notion that women cannot protect themselves. Without distancing ourselves from these stereotypes, we can unintentionally signal to women that the Internet is only a dangerous place, and not a space that they can ethically and materially influence for the better.

HOW DO INTERSECTING IDENTITIES INFLUENCE OUR PERCEPTION OF GENDER ROLES?

Samantha Sasse

In Western societies, it is common for attitudes toward gender to form in relation to other forms of identity, including ethnicity (Perry & Pauletti, 2011). Past research suggests that gender and ethnicity intersect to play a role in group-based discrimination, and this is more significant than discrimination from either solely gender or solely ethnicity (Johnson et al., 2012). The present work expands upon research about perceptions of the intersection of gender identity and ethnic identity, and how this relates to demographic variables.

Male and female participants (N=418; average age 25 – 34; 213 females) recruited via Mturk, completed a revised BEM Sex Role Inventory, an ethnocentrism scale, and an intolerance schema measure. These tools measured the perceptions of the intersection of gender and ethnicity in white males targets and one of 6 other targets (i.e., African American males or females, Asian males or females, or Hispanic males or females). There was also a significant relationship between sexism and the male target description, $r = -.241$ $p < .001$, indicating that participants who are more sexist are rating the target male descriptions to be less masculine. There was a similar relationship between sexism and white male scale, $r = -.212$ $p < .001$, indicating that participants who are more sexist are again rating white males to be less masculine.

This research demonstrates the intersection between perceptions of gender identity and ethnicity, and how this influences group-based discrimination. These findings will help to expand on the research exploring the relationship between gender and ethnic bias that influence the formation of group-based prejudice and discrimination.

Durik, A. M., Hyde, J. S., Marks, A. C., Roy, A. L., Anaya, D., & Schultz, G. (2006). Ethnicity and gender stereotypes of emotion. *Sex Roles*, 54(7), 429-445. doi:10.1007/s11199-006-9020-4

Perry, D. G., & Pauletti, R. E. (2011). Gender and adolescent development. *Journal of Research on Adolescence*, 21, 61-74. doi: 10.1111/j.1532-7795.2010.00715.x

WHO'S AT THE TABLE?: RACE, GENDER AND MICROAGGRESSIONS IN SAGA AND THE CAFE

Shannon Savard and Ana Schavoir

How and where do microaggressions occur in the dining spaces on campus? Microaggressions are defined as “brief and commonplace daily verbal, behavioral, and environmental indignities, whether intentional or unintentional, that communicate hostile, derogatory, or negative racial, gender, sexual-orientation and religious slights or insults to the target person or group” (Sue, 2010).

Saga and the Cafe are the spaces in which social interaction occurs most often at HWS, and the vast majority of students use them on a daily basis. Over the course of two weeks, we observed student behavior at the Cafe and Saga and mapped where students were sitting during peak lunch and dinner hours. We color coded the maps by race and gender and compiled them into a timelapse video that tracks the patterns of student interactions. We then conducted five focus groups in which students described their perceptions of the social atmosphere in these spaces, experiences of microaggressions, and the extent to which they feel HWS values diversity.

Our findings will be crafted into an interactive art installation that provokes students to examine their own experiences in Saga and the Cafe and challenges them to claim their own role in fostering a more inclusive campus environment.

Sue, D. W. (2010). *Microaggressions in everyday life: Race, gender, and sexual orientation*. Hoboken, N.J: Wiley.

A RUINED STAIRWAY IN SNOW

Daniel Schonning

My project is a collection of poems that revolve around the ethereal, distant, and amalgamated character of “Mahmud,” a young boy growing up in Syria. I use compressed lyric poems to explore concerns of origin and the unconscious’s role in constructing the self. My collection also plays with movement across boundaries of time, space, and perspective.

In terms of method, the collection undertakes varied forms and mechanisms throughout. From formal rigidity, with careful attention to scansion, to poems that are fully prose, the project tries to match its content with a flexible and reactive form. It uses mystical realism and a sometimes-surreal style to access subjects that are otherwise too far or opaque for my reach, and tries to then develop them in image, to cast them as they appear.

My project was heavily influenced by eight months spent in Amman, Jordan, working for the UN Relief and Works Agency, with a focus on Palestinian refugees fleeing the war in Syria. Part of that job was to meet with grade school students living in Irbid—in the north of Jordan, along its border with Syria—and collect their stories as a means to build visibility for the UN Relief and Works Agency.

The project developed its first few poems during that time, and—though those first buds have mostly been augmented or nipped since—its metaphysics consistently return to the feeling that that time and place evoked.

LEARNING TO LIE: BECOMING A HUMAN LIE DETECTOR

Justine Shank

Dr. Paul Ekman is a pre-eminent psychologist and a co-discoverer of micro expressions. The programs that he has created aim to teach the student how to be an expert reader of micro expressions. “Micro expressions” are “very brief [reactions], usually lasting between 1/15 and 1/25 of a second. They often display a concealed emotion and are the result of suppression or repression” (Paul Ekman Group LLC., 2016).

After completing all seven of Dr. Ekman’s programs, I will be conducting a study to see if his training can help me identify when peopling are bluffing during a game of poker. Each card player will face a camera during the card game. I will then analyze the footage from each camera using Ekman’s technics and attempt to predict when each player is lying before they reveal their cards to the camera at the end of each hand. I hypothesize that Paul Ekman’s programs will increase my ability to predict when people are lying during the card game. I will also be compiling post-hoc analyses on photos and video clips of well-known politicians, celebrities, and other people who have a known presence in American media.

WHAT WILL YOU CHOOSE? DECEPTION OF FREEDOM IN CONSUMER CULTURE

James Silliman

My paper will examine the elimination of legitimate consumer choice in modern market economies. I understand this process to occur due to assimilation to DeBord's idea of the realm of the spectacle where the Marxist idea of use-value becomes subsumed by Baudrillard's concept of sign-value. The autonomous nature of the spectacle gives it a trajectory that cannot be effectively determined on the level of the consumer. My exposure posits the inability to step outside of the confines of the structure laid out by spectacle as reliant on a social conception of the human race. As a result, the choices that people make can only be amongst given sources and their freedom remains deceptive.

As an example, I will be executing a theoretical analysis of the ten most popular songs on the Billboard charts as of March 15th, 2016, in terms of similarity between the formal structures, rhythmic patterns and harmonic progressions in all of these songs, along with the common employment of a musematic rhythmic cell that repeats throughout. The major difference between these songs exists in the 'brand' of the track, the identification of a cultural icon. These icons when understood as instantiations of the spectacle exists in each hold the same status in the eyes of the consumer. The question then remains: is there any way to have legitimate choice in modern market society?

MAPPING PATRONS IN DOWNTOWN GENEVA

Douglas Silverman

Store owners in downtown Geneva cater to two disparate socio-economic groups: locals and non-resident “tourists.” I have previously argued elsewhere, based on ethnographic research, census reviews, a 37-year historic analysis of commercial stores downtown, and interviews with downtown storeowners, that an atypical form of gentrification is taking place whereby affluent summertime tourists have created a demand for consuming high-end experiences. While these tourists are not moving to Geneva and driving up housing prices, their demand has visibly changed the consumption landscape of downtown.

To further explore this phenomenon, I am conducting a study of patrons at high-end places of business in downtown Geneva and mapping the places they visit and their demographic information. Data is collected using a brief customer survey distributed to a random sample of patrons of local businesses. My hypothesis is that despite some overlap, patronage trajectories of tourists and residents remain nonetheless notably divergent. If, indeed, downtown is being remade in the image of the “affluent tourist” then this begs the question: who does downtown Geneva belong to?

SOCIAL CAPITAL, SOCIOECONOMIC STATUS, AND PARENT HELP-SEEKING BEHAVIOR

Cassidy Smith

Despite the alarming prevalence of mental illness in young children, and the high efficacy of early intervention, as many as 70% of parents do not seek help for their children in need (Clement et al., 2014). Being of low socioeconomic status is associated with three times the risk of developing a mental illness among children, yet this population faces the most barriers in help-seeking (Reiss, 2013). By examining the relationships between stigma, socioeconomic status, social capital, and help-seeking attitudes of parents for their children, my project for Honors in Psychology seeks to develop an understanding of why some children do not receive mental healthcare services in spite of their need.

I collected data through a survey about children's mental health completed by 105 parents of children three to eight years old attending West Street School. In this presentation, I will discuss my findings: the demographic trends of mental illness, parent's attitudes towards help-seeking and the perception of stigma surrounding mental health. In addition, I will discuss the impact of social capital and socioeconomic status on attitudes and stigma, supporting the conclusion that neither financial factors nor lack of education can fully explain lack of help-seeking behavior by parents of children in need.

Clement, S., Schauman, O., Graham, T., Maggioni, F., Evans-Lacko, S., Bezborodovs, N., . . . Thornicroft, G. (2014). What is the impact of mental health-related stigma on help-seeking? A systematic review of quantitative and qualitative studies. *Psychological Medicine, 45*, 11-27. doi:10.1017/s0033291714000129

Reiss, F. (2013). Socioeconomic inequalities and mental health problems in children and adolescents: A systematic review. *Social Science and Medicine, 90*, 24-31. doi: 10.1016/j.socscimed.2013.04.026

TULIPS, TALL SHIPS, WEBSITES, HOUSES, AND OIL:
TRACING FINANCIAL BUBBLES SINCE 1636

Nikolai Stern

Was the Great Financial Crisis similar to previous financial crises, and how did “it” develop? In this project for my senior seminar in Economics, I will trace the history of financial bubbles since 1636. If history repeats itself, four historical crises, the Tulip Mania of 1636, the South Sea Bubble in 1720, the Dot-Com bubble in 2000, the commodity-bubble and housing bubble in 2000s may show similar trends, and can help us to create policy that will help avoid future economic crises.

The Great Financial Crisis is coined “Minsky’s Moment,” as Hyman Minsky predicted the crisis. Each of these financial bubbles can be analyzed through Hyman Minsky’s Financial Instability Hypothesis of the transition from hedge finance to speculative finance to Ponzi finance. I hope discover whether financial bubbles since 1636 have a similar foundation in relation to Minsky’s Financial Instability Hypothesis. Can we fix our unstable financial institutional and implement policy to prevent future crises or are we doomed to repeat ourselves?

HONORING THE ORIGINS OF HIP-HOP IN CONTEMPORARY PRACTICE

Elizabeth Strano

As a student of African and Caribbean dance forms, as well as hip-hop dance, I am aware of the depth and breadth of interdisciplinary history behind even the most contemporary new school of hip-hop dance. My hip-hop education developed strictly within a studio environment; I've learned "how to hip-hop" by looking into mirrors and counting beats; I've sat in lectures and Q&A sessions facilitated by some of the most renowned old-school teachers of hip-hop dance movement.

My education comes from a place cultivated and abstracted from the origins of hip-hop, an essence extracted from the archetypal streets that celebrates individuality, freestyle, and life. Today's hip-hop is derived from the streets upon which it was born in the 1970s; I am a white woman born and raised in various suburban communities. By learning, researching, embracing, and exploring hip-hop's values and influences in my own life, this becomes part of how I understand my relationship to myself, and thus my relationship to the history and trajectory of hip-hop dance.

Today, I want to honor the information, the history that I know to be true, while recognizing the change that the millennial present brings us. Transmitting the art of hip-hop dance in a way that maintains a knowledge and appreciation for its deep roots is a responsibility that I feel as a hip-hop dancer. Holding onto the essence of hip-hop, preserving its integrity, while simultaneously exploring the new avenues of dance available and popularized in our global community, is an important step towards honoring the past while looking to the future evolution of hip-hop.

WOMEN IN COMEDY: THE RISE AND NOTERIETY OF AMY SCHUMER

Katherine E. Theriault

This case study traces the rise and notoriety of entertainer Amy Schumer, examining the social context in which Schumer established her brand of humor. I will discuss how changes in social mores, gender roles, and social media over the last decade impact and promote Schumer's notoriety among a largely Millennial female audience. I will address the aspects of Schumer's humor that speak and appeal to a contemporary audience.

In her comedy, Schumer consistently addresses issues of sex, gender, marriage, and body image. By ascertaining the prominent themes Schumer employs in her comedy, I will define correlating views held by Millennials on those topics, and determine why Schumer, and her comedy have become so popular with this generation. For example, as of 2013, of Millennials between the ages 18 to 32, only 26% are married.¹ This is a 10% decline from Generation X in the year 1997, and an even greater contrast from that of the Baby Boomer generation, which saw 48% of those ages 18 to 32 married.² Schumer has established herself by blatantly addressing such changes in social conventions and embodying the Millennial woman. Lastly, I will address the role of women in comedy, and how they are both viewed and represented compared to their comedic male counterparts.

¹ Taylor, Paul. "Millennials in Adulthood." Pew Research Centers Social Demographic Trends Project RSS. March 07, 2014. Accessed March 2016. <http://www.pewsocialtrends.org/2014/03/07/millennials-in-adulthood/>.

² Ibid

MICHAEL BROWN AND THE FERGUSON UNREST IN LOCAL MEDIA

Andrea Uhl

On Saturday, August 9, 2014, Michael Brown, an unarmed 18-year old African-American teenager from Ferguson, Missouri was fatally shot to death by white police officer Darren Wilson. Residents of Ferguson assembled the day of the shooting to protest against police violence towards African-Americans. The protests lasted for several days and police used extreme forces to break up the crowd. Following the decision on November 24, 2014 about the legality of Wilson using deadly force against Brown, which resulted in not indicting the officer, a new set of protests erupted.

I will analyze the media portrayal of the shooting and the resulting protests in Ferguson, Missouri. I use rhetorical analysis to compare and contrast online articles and reports from the two local newspapers, the black weekly newspaper *St. Louis American* and the white newspaper *St. Louis Post-Dispatch*, in order to identify differences in reporting and explore media bias. Furthermore, the influence of the media portrayal on the residents and protests will be observed in order to understand how media shapes people's opinions and actions on race issues.

SENECA MEADOWS AIR QUALITY MONITORING PROJECT

Alexandra Vitulano

Seneca Meadows Landfill is the largest municipal solid waste landfill in New York State, located close to Hobart and William Smith College's campus on the eastern side of Seneca Lake. The purpose of this project to explore the varied implications of the Seneca Meadows Landfill for quality of life in the nearby town of Seneca Falls. The study will focus on implications for public health as well as odor nuisance in two sampling locations within the town. Currently there is limited air monitoring in the area, which drives the need for a solid base of data for future political and community health decision making.

I will collect air quality samples, which will be analyzed for chemical constituents including volatile organic compounds. I hope to determine the specific chemical gases that make up the overall mixture of landfill gases and ambient air near Seneca Meadows. Based on the specific chemicals sampled, I will be able to determine possible public health risks for both adults and children residing in the area. Furthermore, the data can be used by local political figures and citizens to help determine future precautions and actions. It is crucial to have a solid base of data for future researchers in order to improve quality of life in areas surrounding other municipal solid waste landfills, and to ensure public health.

GENDER AND RACE ON DISPLAY: THE PRODUCTION OF CULTURE IN MUSEUM EXHIBITS

Karly Wagner

How we commemorate public history informs the way individuals create historical memory. I am exploring how museum exhibits create collective memory that contributes to inequalities in race and gender. I am examining three historic and cultural museums in upstate New York, analyzing the exhibits, as well as visitor interaction and reception of the exhibits. The creation of memory is not static; it is therefore necessary to study how and what society chooses to commemorate, and determine whether or not exhibits recreate previous stereotypes and inequalities, or whether these challenge pre-existing historical narratives.

GLOBAL CITIES: HOW LINDEN STREET HAS ADAPTED TO A GLOBAL MARKET

Karly Wagner

What makes a city global? In light of a globalizing market and rapidly changing consumption scene, how do smaller cities, such as Geneva, survive? From a traditional definition of globalization, Geneva has not been able to adapt the changing market patterns of global production. However, I will challenge this traditional framework using census data, ethnographic research and in-depth interviews, to show how Geneva, specifically Linden Street, has been able to adapt to a changing consumption scene and become a global street comprised of global knowledge, global consumption and global production, while still remaining a focal point of local pride.

COMPARATIVE GENOMIC ANALYSIS OF APOCYNACEAE PLASTOMES

Lauren Walter

Flowering plant chloroplast genomes (plastomes) are typically highly conserved in gene structure and content, but as more plastomes are sequenced, more examples of divergence are being identified (Jansen and Ruhlman, 2012). Because humans rely on flowering plants as a food source, these divergences are important to study because they can be used to explain the phylogenetic relationships and explain the different patterns of evolution among flowering plants. With the advent of Next Generation Sequencing, sequencing genomes has become increasingly inexpensive and efficient (Mardis, 2013). New chloroplast genome data was generated for nine species from the flowering plant family Apocynaceae using Illumina sequencing. A comparative genomic analysis was done using the newly generated data and 25 publicly available plastomes from the family Gentianales.

This study focuses on pseudogenization of genes that are thought to be essential for plant function. For example, the *accD* gene, which has been found to be essential in other flowering plants, has become a pseudogene in *Carissa spinarum* (Kode, 2005). It is hypothesized that pseudogenization of essential genes can occur because the functional gene sequence has moved to the nuclear genome (Williams, 2015). Additionally, repeat content was analyzed across 26 plastomes. *Aspidosperma cruentum* had the fourth highest level of repeat content when compared to 25 publically available Gentianales plastomes. This suggests that *A. cruentum* has a high rate of molecular evolution (McDonald et al, 2011). As more plastomes are sequenced, more divergences, like those found in *A. cruentum* and *C. spinarum*, are found. Plastomes are still highly conserved, but patterns of divergence can be used to understand the phylogenetic relationship between Apocynaceae plastomes.

Jansen, Robert K. and Ruhlman, Tracey A. (2012). Plastid Genomes of Seed Plants. *Genomics of Chloroplasts and Mitochondria* 35: 103-126.

Kode V, Mudd EA, Iamtham S, Day A. 2005. The tobacco plastid *accD* gene is essential and is required for leaf development. *Plant J.* 44:237–244.

Mardis, Elaine R. (2013). Next-Generation Sequencing Platforms. *Annual Review of Analytical Chemistry* 6:287-303.

McDonald MJ, Wang W-C, Huang H-D, Leu J-Y. (2011). Clusters of Nucleotide Substitutions and Insertion/Deletion Mutations Are Associated with Repeat Sequences. *PLoS Biol* 9(6): e1000622. doi:10.1371/journal.pbio.1000622

Williams, Anna V., et al. 2015. The Complete Sequence of the *Acacia ligulata* Chloroplast Genome Reveals a Highly Divergent *clpP1* Gene. *PLoS ONE* 10(5):e0125768

FDR'S FIRESIDE CHATS AS DIALOGUE WITH THE PEOPLE

Tom Walter

The New Deal changed the American people's concept of government, making it an institution directly experienced in American's daily lives and directly concerned about their welfare. Furthermore, it created a mythos around Franklin Delano Roosevelt and his fight against the Great Depression. Much of FDR's mythos stems from the so-called Fireside Chats.

My research investigates the dialogue of the President Franklin D. Roosevelt and the people of the United States illustrated in the Fireside Chats. Specifically, it looks at the ways in which the Fireside Chats dialogue set the stage for and also was a decisive factor for shaping the New Deal policies. Drawing from the transcripts of the first two radio Fireside Chats, responses from individuals who wrote to FDR, as well as news reports of the time, I chart how Fireside Chat tested the potential of such a means of communication. FDR was the first to use direct address to inform the public of government action, immediately and nationwide. While critics maintain that the New Deal was an overreach of the FDR administration and proponents emphasize that the Great Depression justified the means, a majority of scholars agree that it was FDR's rhetoric that swayed the public. By positing questions of dialogue at the center of my work, I aim to illustrate what constituted this type of political dialogue and its function as a form of democratic practice.

TOOL: ESCAPING THE SPECTACLE, MAINTAINING THE SPOTLIGHT

Emmett Wechsler

My project explored how Tool, as a band that exists outside of the mainstream, managed to maintain their place in culture as a successful band. Operating as a group seeking to avoid becoming a spectacle, Tool constantly sought to move against the mainstream.

I launched both a musicologist and theoretical investigation of Tool and their music, analyzing interviews with band members, articles seemingly written by fans and musicologists alike, and completed a theoretical analysis of one of the band's most complex and popular songs "Lateralus." What I hope to continue to explore is the push-pull dynamic between the fans as a way of maintaining popularity. Tool as a band is not particularly accessible with their music or in the media, but their ability to retain their fans is on a level few other groups can replicate.

USING MACROMOLECULAR CROWDING TO STUDY YEAST ALCOHOL DEHYDROGENASE (YADH) ENZYME MECHANISM

Allison Wilcox

The intracellular environment is crowded with high concentrations of carbohydrates, proteins, nucleic acids, and other macromolecules. Traditionally, biophysical studies are conducted in dilute conditions, yet experimental and theoretical evidence indicates that enzyme behavior is affected by the presence of these macromolecules, resulting in slowed diffusion, enhanced enzyme-substrate binding, and altered enzyme conformation.

To begin to characterize macromolecular crowding's effects on enzyme mechanism, Michaelis-Menten parameters were obtained from spectrophotometric assays conducted on the enzyme yeast alcohol dehydrogenase (YADH) in the absence and presence of the glucose polymers, dextran. Our results show that when the primary substrate, ethanol, is used and the rate-limiting step is the release of the NADH product, crowding decreases the maximum rate of the reaction by approximately 40%. Conversely, when the alternative substrate, isopropanol, is used and the rate-limiting step becomes the chemical hydride transfer, a 20-40 % increase in maximum rate of the reaction is observed. Furthermore, this study has shown that oxidation of NADH by YADH is enhanced in the presence of dextran and displays potential cooperativity. Collectively, these studies indicate that macromolecular crowding influences not only enzyme structure, but also greatly impacts enzyme mechanism.

MASS INCARCERATION AND THE MEDIA: ANALYZING CALIFORNIA'S PRISON-INDUSTRIAL COMPLEX

Jack Williams

Since the 1980's, wealthy corporations and individuals have privately invested in the growth of the prison system in the United States. With the War on Drugs growing and incarceration rates rising in the 1970's, prison overcrowding and rising costs became difficult for local, state, and federal governments to handle. By involving the private-sector, the federal government has allowed for the politics of greed to enter the judicial and imprisonment systems. The United States now has the highest prison population in the world, with 2.3 million prisoners behind bars. Although having a larger population, China has the second most amount of incarcerated citizens with 1.6 million.

As prisons in the United States are privately run, the organization or individual that is invested in a prisons makes more money when there are more prisoners. Mainstream and local media outlets around the country are also directly and indirectly invested in some private prisons, causing the themes and rhetoric surrounding incarceration in news stories to encourage the imprisonment of specific social groups based on race, socioeconomic status, and gender. I will identify and analyze five different specific moments of media coverage on California's private prison system between 2000-2015. This research will aim to identify how, why, and when media coverage about California's private prison systems encourages mass incarceration.

DEVELOPING A MOTOR SKILLS INTERVENTION FOR CHILDREN WITH AUTISM SPECTRUM DISORDERS

Kathryn Yochim

My Senior Independent Study served as a capstone for my individual major and involved the creation and implementation of a physical activity intervention program to improve the acquisition and development of motor skills in children with autism spectrum disorders (ASD).

In PSY 321, Research in Developmental Psychology, I generated a research proposal in which I outlined the preliminary foundation of my motor skills intervention. Based on previous research related to motor skill deficits in children with ASD¹, the effects of physical activity on motor skills², and the benefits of physical activity for children with ASD³, I attempted to fill the apparent gap in the psychological literature by examining the benefits of physical activity on motor skills in children with ASD.

I adapted this original program, designed with ideal parameters, into a curriculum to be implemented at several local agencies with children of varying ages and abilities. The program included small- and large-group games as well as obstacle course stations with activities targeting fine and gross motor skills roughly based on those used by physical and occupational therapists. Also included were special considerations related to the physical space, program organization, and adult facilitators. Such considerations are vital when working with children with specialized needs in order to eliminate any potential discomfort or adverse behaviors and reactions which could deter the children from experiencing the benefits of the program. My project introduced a topic previously unexplored in the psychological literature and tackled the difficult task of creating an effective, generalized program for a population of children who, by nature, exhibit varying abilities and primarily benefit from individualized services.

¹ Ming, X., Brimacombe, M., & Wagner, G. C. (2007). Prevalence of motor impairment in autism spectrum disorders. *Brain & Development*, 29(9), 565-570. doi:<http://dx.doi.org/10.1016/j.braindev.2007.03.002>

² Bürgi, F., Meyer, U., Granacher, U., Schindler, C., Marques-Vidal, P., Kriemler, S., & Puder, J.J. (2011). Relationship of physical activity with motor skills, aerobic fitness and body fat in preschool children: A cross-sectional and longitudinal study (ballabeina). *International Journal of Obesity*, 35(7), 937-944. doi:<http://dx.doi.org/10.1038/ijo.2011.54>

³ Schultheis, S. F., Boswell, B. B., & Decker, J. (2000). Successful physical activity programming for students with autism. *Focus on Autism and Other Developmental Disabilities*, 15(3), 159-162. doi:<http://dx.doi.org/10.1177/108835760001500306>