The Mary Wig Johnson
Senior Forum

Established through the generosity of the late beloved alumna and trustee Mary Wig Johnson ’35, this forum honors her longstanding commitment to academic excellence at Scripps College. Members of the Class of 2014 selected by their faculty will present their thesis research to the larger Scripps community so that students, faculty and staff will have the opportunity to learn about the first-rate work they have accomplished. Scripps bases its strength on the interdisciplinary Core curriculum as a foundation for focused research in liberal arts disciplines. Thus, each class is united in a common intellectual experience, and the Mary Wig Johnson Senior Forum showcases capstones of outstanding Class of 2014 students’ academic career.
HANNAH MOORE  
Biology and Hispanic Studies  
Advisor: Marina Pérez de Mendiola

*La medicina y la cosmovisión: intersecciones de la aculturación y la resistencia en la traducción de textos médicos aztecas*

Indago cuestiones conectadas con el texto azteca Libellus de Medicinalibus Indorum Herbis, que es el primer texto médico americano. El marco médico de los azteca se entraña profundamente con la cultura misma, y se basa en la investigación empírica además de fuentes sociales y religiosas. Abordo el ámbito complejo de la época pos-conquista a través del aparato sociopolítico que dirigió la producción y traducción del Libellus, con énfasis particular en mi propio trabajo de traducción.

EDITH ADAMS  
Hispanic Studies  
Advisor: Marina Pérez de Mendiola

*¡No pongas palabras en mi boca!: Un análisis de la traducción del humor en los subtítulos*

This thesis explores the corruption of contemporary film translation techniques, particularly those used to translate humor, and questions the ethics of these translations from both a practical and theoretical standpoint. In particular, this study draws upon post-colonial translation theory, as well as the author’s own English-Spanish translation of Iron Man 3, in order to question whether the effective communication of audiovisual humor inherently necessitates the use of ethnocentric translation practices.

LAURA MALLISON  
Legal Studies, Hispanic Studies  
Advisors: Carmen Sanjuán-Pastor

*La tiranía de la invisibilidad: la necesidad de reconocer y analizar la violencia de género en la Argentina*

This thesis examines gender violence in Argentina in the context of historic gender inequality and parallels it to the 1976-1983 Dictatorship to demonstrate its systematic nature. Through a detailed analysis of Argentina’s recent efforts against gender violence, this thesis establishes that it is normalized and perpetuated when the historical context is simplified and proposes the creation of a framework for a collective, contextualized dialogue.
WINONA BECHTLE
Hispanic Studies/Media Studies
Advisor: Jennifer Wood

*Madrid Me Mata: Regional Identity Politics and Community Building Through the Music of La Movida Madrileña*

Exploring the visual communities of la Movida madrileña, I examine how music was crucial to establishing a sense of regional identity following Spain's entry into democracy after Franco's death. By taking into account the lyrics, albums, and progression of la Movida bands, I was able to track the evolution of popular Spanish opinion concerning changes in the government and development of the city of Madrid as it entered an international conversation.

9:45-10:45 Session A2 Biology & Neuroscience Humanities 105
Moderator: Bryan Thines

HANNA F. BRODY
Biology
Advisor: Patrick M. Ferree

*Investigating the function of selfish satellite sequences through expression profiling in the Jewel Wasp testis*

Repetitive, nonprotein-coding satelliteDNAs are ubiquitous among eukaryotes, however, little is known about their possible roles in genome function. This thesis addresses the critical issue of satelliteDNA function through two approaches. First, quantitativePCR was used to investigate transcription levels. Findings argue against satellites playing functional roles. Second, experiments were initiated to determine if conditional mutagenesis through RNAi is possible by testing its ability to deplete a testis-specific . Results suggest RNAi may be an effective method for mutagenesis.

PALOMA MEDINA
Biology
Advisor: Bryan Thines

*Response of Flowering Time Genes, CONSTANS and FKF1, to Cold Temperature in Arabidopsis thaliana*

Flowering in Arabidopsis thalina is controlled by multiple pathways and is repressed by cold. To understand how A. thalina molecularly responds to cold stress temperatures, we subjected seedlings to different temperatures of cold stress for four days. Specifically, we conducted quantitative PCR of CONSTANS (CO) and the F-Box protein FKF1 to observe specifically how cold temperatures might affect the flowering time of a plant. We found 16°C cold temperatures increased both CO and FKF1 transcription when compared to a 24°C control. The increased expression of both CO and FKF1 may serve as a priming pathway that enables plants to be ready to flower at the precise moment when spring arrives.
LIAN GUO
Organismal Biology
Advisor: Sarah Gilman

Effects of variable and constant acclimation regimes on the upper thermal tolerance of intertidal barnacle, Balanus glandula

Past studies on intertidal species measured thermal tolerance under constant temperatures, neglecting to consider impacts of natural variation in field temperatures. Balanus glandula was acclimated in an intertidal mesocosm to either daily cold, daily warm, or variable low-tide temperatures. Critical thermal maximum (CT$_{\text{max}}$) was identified as the temperature at which each barnacle ceased to function. Acclimation to thermal heterogeneity raised thermal maximum, reinforcing the need for future thermal tolerance studies to incorporate biologically-relevant thermal regimes.

IRINA RABKINA
Neuroscience
Advisor: Timothy Justus

Examining the Intersection of the Cognitive Advantages and Disadvantages of the Bilingual Brain

Bilingual brains differ from monolingual brains in both structure and function. Many of the functional differences are classified as part of either “the bilingual advantage” or “the bilingual disadvantage.” In this thesis, participants performed a task that has been used to demonstrate the bilingual advantage while placed under conditions that induce the bilingual disadvantage. In this way, the intersection of the two was examined in order to determine whether the mechanisms underlying the phenomena overlap.

9:45-10:45 Session A3 Economics – 1 Humanities 119

Moderator: Kerry Odell

AMANDA SCHAIBLE
Economics
Advisor: Roberto Pedace

Quantitative Easing's Effect on Shadow Banking: Have Federal Reserve Purchases Caused a Collateral Shortage in the Repurchase Agreement Market?

The shadow bank system, which is a system of financial intermediaries that perform unregulated credit intermediation, has contracted significantly since the start of the financial crisis in 2008. Some argue that this contraction is due to a collateral crunch in the repurchase agreement market induced by quantitative easing, the Federal Reserve’s bond buying program. I examine this hypothesis and find that increases in Federal Reserve asset holdings are associated with declines in repurchase agreements.
MADDIE RIPLEY  
Economics  
Advisor: Roberto Pedace and Sean Flynn

*From Adele to Zedd: The Consumption of Popular Music in the United States, 2006-2013*

How do we consume cultural goods, and what do consumption patterns of culture demonstrate? Improving standards of living promote low turnover of cultural goods. Between 2006 and 2013, U.S. consumers endorsed stability in the music industry regardless of an artist’s past success. The Internet and its resources lower the costs of accessing unestablished artists, allowing modern consumers to interact with cultural goods with unprecedented ease.

ALFONSIA RODRIGUEZ  
Mathematical Economics  
Advisor: Roberto Pedace

*The Effect of Dual Language Education on Student Achievement*

This paper studies the educational effect of the two-way immersion dual language programs (DLE) in California’s public elementary school system on English Language Learners and English Speakers’ achievement compared to non-participants. The analysis consists of a series of OLS regressions that evaluate test scores on a series of control variables. I found a highly statistically significant correlation between ES’ achievement level and DLE participation. A positive but not statistically significant correlation was found for ELL students in the participating schools. Therefore, it might be possible that the end of the year examination might be testing language proficiency more than academic achievement. Nevertheless, DLE was found to be positive for all students.

AILEEN LE  
Economics  
Advisor: Sean Flynn

*Understanding the Luxury Handbag Market: Do Used Handbags Make Viable Investments?*

This thesis investigates whether luxury handbags in secondary markets make for viable investments. Specifically, the FashionPhile market for authenticated used handbags is examined. Based on the results of T-tests and market regressions, Chanel handbags retain and increase their value. However, handbags generally exhibit negative returns and do not make for attractive growth investments due to high volatility and low average and median returns. They do make excellent candidates for items with promising resell value prospects.
"I'm a Jesus feminist": Understandings of Faith, Gender, and Feminism Among Christian Women

Since the emergence of the Christian Right and the feminist movements, Christian women have frequently sat at the crossroads of polarizing narratives about gender and femininity. Thirteen Christian women were interviewed about their female and Christian identities, gender roles, and feminism. Themes include idealized understandings of faith and self, complex and contradictory practice, and label rejection. Through self-definition, participants were able to navigate away from stereotypes and communicate their beliefs on their own terms.

Kitchen Justice: Gender Difference in Building Common Ground

In my thesis I interviewed female chefs and asked them to share their pathway to becoming a professional chef and/or restaurateur. I found in my research that women's experiences within the domestic kitchen have been documented and recorded, as they are seen as the gatekeepers of that space within the home. However, though women have moved into working in commercial kitchens the stories that the media highlights and records are of women and cooking within the domestic kitchen. I want to begin to build a second volume of stories, of women’s lives, work and experience around cooking within the professional sphere. In my project I explored and investigated why female chefs believed commercial kitchens are still dominated by men, and how these women who I interviewed believe their gender has hindered or helped them achieving their executive position in their restaurant. I argue that the lack of personal accounts and publications highlighting women’s accomplishments within the professional sphere are causing commercial kitchens to remain to be structured within a patriarchal framework. By collecting these stories, and documenting the unique pathways these women took to holding executive jobs in the restaurant industry I hope that the stories will begin to dismantle the patriarchal framework that dominates the commercial kitchen by adding a feminine narrative to the discourse.

Perceptions and Strategic Concerns of Gender in Terrorism

This thesis argues that women are increasingly recruited by terrorist organizations because they are perceived as high-benefit and low-cost perpetrators. Female terrorism’s effectiveness results
from cross-cultural, deeply imbedded stereotypes of female behavior. Women are seen as nonviolent in the cultures from which female terrorists emerge and perpetrate their attacks, and are therefore given more lenient security measures. Stereotyped policies and media regarding terrorists uphold these lethal trends, which should be addressed through policy recommendations.

9:45-10:45 Session A5 Humanities Humanities 101
Moderator: Andrew Aisenberg

EMMA KELLMAN
Humanities: Interdisciplinary Studies in Culture
Advisor: Andrew Aisenberg

**Politically Historiography and the Zionist-Crusader Analogy**

This thesis investigates the deployments of Medieval history in modern political debates on Israel-Palestine, primarily through an analogy comparing Zionists to the Crusaders. Specifically, exploring the link between history and land claims, this thesis argues that Crusade historiography is politicized along nationalist lines. Finally, through an engagement with Foucault and Benjamin, this thesis re-conceptualizes history, within the context of the Israel-Palestine conflict, as a practice concerned with the present and future.

CARRIE LATIMER
Humanities
Advisor: Marc Katz

**The Plots of Alexanderplatz: A Study of the Space that Shaped Weimar Berlin**

This thesis examines how Alexanderplatz functioned as both a transit space for the movement of transportation and pedestrians, as well as a transit space for the movement of ideas and information during Weimar Berlin. Specifically, this idea is explored through three different representations of Berlin's Alexanderplatz and their intersections: the historical urban plans for the square, Alfred Döblin's 1929 novel Berlin Alexanderplatz, and Rainer Werner Fassbinder's 1980 film adaptation of the novel.

JULIA MACNELLY
Humanities
Advisor: Paul Buchholz

**The City and The Stage: Ethics of Performance in Ex-Yugoslavia**

Contemporary theater and performance art is examined in four cities in ex-Yugoslavia. War has pervaded all of the sites in some way, and interaction with urban space becomes a central element in performances. These productions preserve the city’s identity amidst destruction, cleanse the city from the shame of official exploits, break from the insular legacy of nationalism that flooded the streets, even gather the city together in a process of collective healing.
MELODY STRMEL
Humanities Major: Interdisciplinary Studies in Culture
Advisor: Andrew Aisenberg

Magical Me: Self-Insertion Fanfiction as Literary Critique

This thesis examines the textual interaction that impacts readings engaged with fanfiction by exploring how self-insertion fanfiction functions as a medium wherein authors express their textual analysis and its emotional impact via wish fulfillment and literary distortion. In this literary critique, the author acknowledges the effect of a mediated world on their perception of self/reality, and rejects performing objective analysis, allowing critique of the work from a subject position influenced by the text.

9:45-10:45        Session A6  English        Humanities 102
Moderator: Aaron Matz

KATHERINE MACDONNELL
English
Advisor: Warren Liu and Cheryl Walker

How the Myth Was Made: Time, Myth, and Narrative in the Work of William Faulkner

It is easy to dismiss myth as belonging to the realm of the abstract, yet it makes up the fabric of society, informing the present by shaping the past. This thesis explores myth through the lens of William Faulkner's "A Rose for Emily," Absalom, Absalom!, and "The Bear," examining their call to readers to think critically about the process of myth-making, and only gradually coming to find value in a process that is often destructive.

CATHERINE SCHETINA
English
Advisor: Cheryl Walker

"It Made the Ladies into Ghosts": The Male Hero's Journey and the Destruction of the Feminine in William Faulkner's Absalom, Absalom! and Toni Morrison's Song of Solomon

This thesis considers the intertextual relationship between Absalom, Absalom! and Song of Solomon, analyzing the objectification and death of women and female-coded men in service of the male protagonists' journey to selfhood. I consider these trends through the lens of race, class, and gender, analyzing the three archetypes of object positions allocated to women.
"Of the Woman First of All": Walt Whitman and Women’s Literary History

This thesis contemplates Walt Whitman and American feminism. Many women from all eras are drawn to Whitman’s poetry; Whitman himself called Leaves of Grass “a woman’s book.” Whitman believed in equality, was close to women’s rights activists, and was obsessed with motherhood and wombs. He became a poetic source of inspiration for several members of the feminist movement, and this prompts us to reflect upon the position of a male poet in feminist politics.

"Their Idea of Tragedy": A Deconstruction of Intersections of Gender and Disability in Virginia Woolf

Virginia Woolf’s literature is essential for examining perceptions of gender in the developing category of disability during the inter-war period in England. Given that contemporary feminist scholarship has evaluated Woolf’s writing in problematic methods that discount the significance of disability, we must turn back to Woolf, and to disability studies, for a method of representing disabled characters that also criticizes the ways in which normalcy is defined and reinforced through literary forms.

Session A7  Athletics  Humanities Courtyard

Madeline Barnes  Basketball
Elizabeth Beem  Cross Country
Hilary Bruegl  Volleyball
Kelly Davis  Water Polo
Elizabeth Diebel  Golf
Ellen Erving  Track & Field
Nikita Gettu  Tennis
Laura Jeddeloh  Swimming
Kyra Ray  Basketball & Lacrosse
Allison Rigby  Cross Country & Track
Rebecca Schell  Cross Country
Dana Shaker  Swimming
My Schizophrenic Existence: Examining Blackness in Personal and Academic Spaces

This documentary attempts to provide further research into an age-old question: is blackness more than skin deep? And if so, what is it? Its purpose is to further elucidate what people believe are the necessary qualifications to be considered “black” outside of having dark skin. It is believed that through these detrimental qualifications of what “blackness” should be, as well as the strict enforcement of these qualifications by all racial groups in America, including blacks themselves, that working class blacks pursuing higher education often experience a sense of culture loss/confusion.

Be Heard: Narratives of Sexual Assault and Rape

This thesis explores nine individuals’ personal experiences with sexual assault and rape. The project provides a platform for voices that have been historically silenced, striving to empower and support survivors while raising awareness on the pertinent issues surrounding sexual assault and rape. By engaging in the tension between the individual narratives and the collective dimension of the experience of sexual assault and rape, this thesis reframes the relationship between the personal and the political.

Troika of Fortune Tellers

This film is an oral history that explores the intergenerational relationship between three women: my grandmother, my mother, and I. The piece honors the Russian tradition of fortune telling that my grandmother has cultivated and shared between the three of us. As my grandmother’s struggle with dementia affects our relationship, this practice of fortune telling has helped to preserve our connection and her memory.
LAUREN PRINCE
Media Studies
Advisor: Nancy Macko

**Beauty and the Body: Gendered Representations of the Digitally Altered Image**

Normalized gendered representations in images are heightened through digital manipulation and influence a spectator’s relationship to the image and their own body. Theoretical understandings of the ways photographs create a normative beauty ideology are based on assumptions of imagistic reality. A case study analysis of digitally altered celebrity photos proves that digital manipulation dictates gender representations.

11 am – 12 pm  
**Session B2 Latin American & Caribbean Studies**  
Moderator: Marina Pérez de Mendiola

ISABELLA HENDRY
Foreign languages, Middle East and North Africa Studies
Advisor: Marina Pérez de Mendiola, Fazia Aitel

**La educación como camino hacia la revitalización de lenguas indígenas: problemas y prospectivas**

The Imazighen (Berbers) of Algeria and Morocco and the Runa (Quechua) of Peru and Bolivia are attempting to revitalize their languages and break the repressive cycles created by colonization and its successors: neo-liberalism and global “development” projects. An analysis of both indigenous and non-indigenous sources reveals that in attempting to introduce their languages to the classroom they have articulated alternate cosmologies that challenge the institution of western education, and by extension western-occidental notions of modernity.

ALLISON MATAMOROS
Latin American and Caribbean Studies
Advisor: Cindy Forster

**Revolutionary Means of Communication Used by the Federation of Neighborhood Committees (FEJUVE) of El Alto, Bolivia during the Gas War of 2003**

(FEJUVE) successfully coordinated a movement in 2003 to nationalize natural resources thanks to their strategies of communication. I found four main strategies the organization uses from the interviews with FEJUVE leaders. They incorporate oral tradition into all aspects of their organization. Their strategies of communication remain flexible enough to function under crisis. They found ways to reach decisions amongst themselves and convey their message to multiple levels, and they maintain open communication with academic institutions.
EMILY ARETA  
Latin American Studies & Legal Studies  
Advisor: Marina Perez de Mendiola

"De Acá Pa' Allá": Constructing Pan-Latinidad in Ruben Blades' Life and Music

This thesis examines the life and music of the artist, political figure, and Hollywood actor, Ruben Blades. Focusing on textual analyses of his songs, coupled with historical and biographical information, this work investigates how his designation as a pan-Latino figure is constructed along gender and racial lines. In an effort to understand how individuals interact with sonic constructions of community, this work also looks at the way that Blades' pan-Latinidad has influenced my own life.

JULIA SEWARD  
Politics & International Relations, Hispanic Studies  
Advisor: Mark Golub

An Intersectional Approach to Environmental Political Theory: A Case Study on Modern Andean Bolivian Indigenous Forms of Resistance and Communal Democracy in Relation to Water Rights

Considers Bolivian Andean indigenous forms of democracy and resistance to neoliberal water privatization in Cochabamba. Incorporates environmental identity into the intersectional theoretical framework with principles rooted in Indigenous grass roots theory, Marxist critiques on capitalism, Latin American Neomarxist scholars, and Environmental Justice. Focuses on intersections of ethnicity, gender and class identities with environmental identity to understand the extent to which environmental injustices cannot be addressed in isolation from other sources of inequality.

ANNABEL BARRAZA  
Latin American Studies and Chicana Studies  
Advisors: Marina Perez de Mendiola and Cindy Forster

Bridging Isolation: The Politics of Exclusion in Colombian Refugee Populations in Ecuador and Mexican Immigrants in the U.S.

This thesis examines the mechanisms of power, specifically deconstructing international concepts of “refugee” and “immigrant” and its confined isolation despite similar trajectories of exclusion. It seeks to highlight the incongruency of ethics and law, through the lived discrimination of Colombian refugees in Ecuador and Mexican immigrants in the U.S.
Throughout the twentieth century, women nationwide poured into Reno, Nevada, the quickie divorce capital of America. A complex local economy accommodated the divorcées during their stays. For the wealthy elite, luxurious “divorce ranches” packaged divorce as a vacation. The ranches also comprised female spaces that facilitated camaraderie, personal growth, and experimentation among the divorcées. Examining these women’s experiences illustrates historical shifts in marital expectations and contextualizes the 1970s expansion of divorce rights.

This thesis explores Willa Cather's vision of the pioneer spirit through an analysis of her essay, "Nebraska: The End of the First Cycle" (1923) and her second novel, Pioneers! (1913). Cather presents an alternative to the traditional frontier myth grounded in an ethos of individualism and masculinity, by granting agency to her pioneer heroine and the landscape, itself. I argue that her work expresses an ecofeminist orientation of the pioneer spirit on the frontier.

Using interviews and three academic models of disability, this thesis examines the social isolation of chronically ill young adults. It investigates able-bodied and disability community understandings of disability, arguing that chronically ill people are marginalized by both mainstream and primary counter-narratives surrounding disability. Ultimately, a case is made for a more inclusive disability community, one that encompasses the experiences of all disabled people.
EMMA WARTZMAN
American Studies
Advisor: Matthew Delmont

First We Cook: An exploration of why Americans should return to the kitchen—and what it will take to get them there

Cooking is good for you—body, mind, and soul. This thesis examines three programs providing home-cooked alternatives to the highly processed food so ubiquitous in America. One is centered at a community garden in Los Angeles, another at Berkeley public schools, and the third at a new-model grocery store in Boston. In the grandest sense, these efforts are part of America’s alternative food movement. In the most immediate, they are making communities healthier and happier.

CATHARINE YOUNG
American Studies and Politics and International Relations
Advisor: Matthew Delmont and Mark Golub

The National Rifle Association in Context: Gun Rights in Relation to the National Security State.

The National Rifle Association has dominated the debate over gun rights since the late 1960s. In many ways, its political power is unassailable. However, a historical analysis of the NRA's deeply rooted connection to the operations of the American government proves this has not always been so. This thesis is an examination of the mission and actions of the NRA through the lens of the government's expansion of power during and beyond the Cold War.

11 a.m. - 12:00 p.m.                       Session B4  HISTORY         Humanities 104
Moderator: Andrew Aisenberg

ANN KIRKPATRICK
History and Hispanic Studies
Advisor: Andrew Aisenberg

"Playthings of a Historical Process": Prostitution in Spanish Society from the Restoration to the Civil War (1874-1939)

In late nineteenth- and early twentieth-century Spain, prostitution was seen as a threat to the moral and physical health of the nation. This thesis explores why prostitution was understood as such an urgent problem and compares strategies that were undertaken to combat prostitution and control prostitute women’s bodies. Women who engaged in commercial sex were consistently and systematically disempowered and silenced even as the legal status of prostitution changed with the Spanish political landscape.
MARGARET BONAPARTE  
History  
Advisor: Julie Liss

_Reexamining the 1950s American Housewife: How the Editors and Writers of Ladies Home Journal Challenged Domestic Expectations During the Postwar Period_

This thesis examines the role Ladies Home Journal played in defining women’s roles during the 1950s by examining the articles and the women who wrote them. Run by a predominantly female staff, LHJ was the leading women’s magazine in the nation with over 4.7 million readers in 1950. While Betty Friedan dismissed women’s magazines for perpetuating images of domesticity, I argue that LHJ played an integral role in empowering female editors, writers, and readers.

11 am – 12 pm  
Session B5 Art History  
Humanities 203  

Moderator: Juliet Koss

LAUREN AMBIELLI  
Art History & French  
Advisor: Juliet Koss

_Hidden Transgressions: Louise Bourgeois’s Early Sculptural Self-Portraits_

This thesis analyzes two sculptural self-portraits by Louise Bourgeois (1911-2010), a French artist whose work exhibits transgressive representations of the female body. Most scholarship on Bourgeois highlights the importance of her biography, suggesting that her work is more personal than political. Instead, this thesis investigates the hidden transgressive statements of Bourgeois’s sculptures by considering biography as a constructed myth that facilitated the artist’s acceptance in the art world.

GRETCHEN ALLEN  
Art Conservation  
Advisor: Mary MacNaughton

_William Morris and the Kelmscott Chaucer: Design, Production, and Conservation Analysis_

William Morris’s Kelmscott Press was founded to produce handmade printed works in an industrializing age. The techniques he employed to make the Kelmscott books resulted in beautiful publications with remarkable material fortitude, as exemplified in “The Works of Geoffrey Chaucer”. This thesis examines the copy of the Kelmscott Chaucer in the Scripps collection from a conservator’s perspective to analyze the connection between Morris’s philosophies, his artistic decisions, and the longevity of the book.
ALLYSON HEALEY  
Art History  
Advisor: Juliet Koss

*Canvass Flirtations and Kissing For Votes: Representations of the Duchess of Devonshire in the Westminster Election of 1784*

This thesis explores satirical prints produced during the Westminster Election of 1784 that responded to the new phenomenon of female canvassers, particularly the Duchess of Devonshire, attacking and mocking them by making visual jokes about their gender and the sexual nature of their campaign efforts. Such prints allowed image-makers and opponents of the Duchess’s canvass to strike at the anxieties of Westminster’s electors and attempt to convince them to disregard women’s canvass.

**11 am – 12 pm  Session B6  Economics -2  Humanities 119**

ALEXA CLARK  
Economics  
Advisor: Sean Flynn

*Correlation Between Crime, Oxytocin, and Generosity*

This thesis examines the relationship between the type of crime of which an inmate is convicted, the change in oxytocin level, and the level of generosity of that inmate. The level of generosity is measured using a behavioral economics task called the Ultimatum Game. Studies of oxytocin have demonstrated that it is connected to generosity so it is illuminating to study it in conjunction with the generosity measure obtained in the Ultimatum Game. The results of the experiment indicate that there is no correlation between the type of crime of which an inmate is convicted and his generosity level.

EI THEINT  
Mathematical Economics  
Advisor: Roberto Pedace

*Empirical Analysis of Causes of Income Inequality: A Level Playing Field for Children at the Start of School Career*

My thesis identifies the most important determinants of income inequality through theoretical analysis and tests my hypothesis that creating a level playing field for children at the very start of their career as students is a key factor determining income inequality. To test my hypothesis, I develop a regression model using public expenditure on primary education. My empirical model confirms theory that quality of primary education is highly beneficial for students.
LEAH SOFFER  
Economics  
Advisor: Latika Chaudhary, Sean Flynn

*Public Funding for the Arts: Welfare for the Wealthy?*

This thesis examines National Endowment for the Arts grant distributions from 2000-2013 to determine if public arts funding is “welfare for the wealthy.” Regression analysis is used to study grants data in conjunction with various socioeconomic factors by zip code. I find national public arts funding is likely not financing an interest for the rich per say, but all types of NEA grants are more likely to be distributed to areas with more college graduates.

CAROLINE MALONE  
Politics & International Relations  
Advisor: Steven Samford and Latika Chaudhary

"Salt Water Fish in a Freshwater Pond:" An Institutional Approach to Understanding Cooperative Scarcity in the United States

Despite the numerous firm and employee benefits associated with the cooperative form, there is a profound scarcity of cooperatives in the United States. In particular, financial consumer cooperatives (credit unions) scarcity relative to banks and the extreme scarcity of worker cooperatives in the country are puzzling. This paper employs DiMaggio and Powell’s framework for understanding institutional forces of organizational isomorphism to supplement the inadequate competitive economic explanation of this scarcity with an institutional approach.

11 am – 12 pm  
Session B7  Writing  
Humanities 101  
Moderator: Kimberly Drake

SARAH TAYLOR  
Creative Writing Concentration in Fiction and Poetry Hybridity  
Advisor: Kimberly Drake

*Letters To Yoko Ono*

Letters to Yoko Ono is an experiment in literary genre. The experiment consists of one hundred letters addressed to Yoko Ono that follows the story of one young woman's reconciliation with her estranged mother. Interweaving plot with structural devices and language the project forces fiction and poetry to coexist, creating both an emotional, fragmented effect. Themes of familial association, love, and altered states of consciousness are written into this story of redemption found in forgiveness.
MADELEINE ROY
Self-Design Creative Writing – Fiction
Advisor: Kimberly Drake

*Arrows: A Partial Novel*

What would you do if you had the power to identify soul mates just by looking at them? A Young Adult fantasy novel with a fresh twist, Arrows tells the five-part story of sisters Art and Abigail Connolly who grapple with not only this question, but those about their own identity and destinies. This thesis provides an example of an understanding of the craft and conventions of fiction writing and Young Adult literature.

CAROLINE NOVIT
Nonfiction Creative Writing
Advisor: Kimberly Drake

*I'll Write You: An Experiment in Epistolary Form*

Letters have become a forgotten medium. So distracted by the instant gratification of social networking and text messages, people have lost sight of the indulgent possibilities letters provide. With no room for immediate response, letters allow the writer to bear intimate details with no interruption. For my thesis, I composed a memoir through epistolary forms. This method allowed me to experiment with tone, style, and voice, and produce an intimate rendition of a life.

ANISSA JOONAS
Creative Nonfiction Writing
Advisor: Kimberly Drake

"Island-Time"

We often imagine islands as islands of beauty, with their grove of coconut palms, beach houses and handsome creatures with tanned, brown skin. “Island-Time,” a memoir, destroys the clichéd exoticism attached to a destination-island like Mauritius. I narrate past events of my childhood and girlhood, which reveal, embody or undermine issues of Mauritian postcolonial society – racism, identity, loss, prerogative, exile, political hegemony, domestic labor, language, and colonial architecture.

BEATRICE SCHUSTER SMITH
Creative Writing for New Media
Advisor: Kimberly Drake

*Gaming Stories: Narrative and (Co)Authorship in Role-Playing Video Games*

Part memoir, part research, part argument, this thesis explores the unique politics and possibilities of stories told through role-playing video games (RPGs). Now a multi-billion dollar industry, advanced video game technology offers increasingly varied and complex ways to produce (ludo)narrative. RPG gamers use interactive agency over their characters’ stories to co-
author plots with game designers. Gaming Stories will help you become “gaming literate” and perhaps inspire you to play your own narratives with RPGs.

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<td>Laura Jeddeloh</td>
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<td>Kyra Ray</td>
<td>Basketball &amp; Lacrosse</td>
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<td>Allison Rigby</td>
<td>Cross Country &amp; Track</td>
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<td></td>
<td>Rebecca Schell</td>
<td>Cross Country</td>
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<td>Dana Shaker</td>
<td>Swimming</td>
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12:00 – 1:30 Hampton Room – Bring Lunch, dessert provided
C Sessions

1:30 pm – 2:30 pm  Session C1  Feminist, Gender, & Sexuality Studies  Humanities 120
Moderator: Piya Chatterjee

MEGAN GIANNINY
Feminist, Gender, & Sexuality Studies
Advisor: Piya Chatterjee

“Other then Dead”: Queering Vampires in Buffy the Vampire Slayer, Interview with the Vampire, and The Gilda Stories

This thesis examines three diverse vampire narratives from around the 1990s, arguing that the liminal figure of the vampire, forever in between life and death, is also then well-positioned to queer norms around gender, sexuality, and relationships. This queering, however, manifests differently in each narrative. My analysis looks at each of these three narratives in turn, while also considering how each text’s placement as mainstream or not mainstream affected the manifestation of the vampires’ queering.

JADE ULRICH
Media Studies
Advisor: Susan Castagnetto & Jennifer Friedlander

James Deen: The Feminist Enigma

This thesis examines male porn star James Deen and the feminist enigma that he represents within the feminist realm of pornography. Specifically, theories including Foucault’s Power-Knowledge-Pleasure, José Esteban Munoz’s Disidentifications, Gilles Deleuze’s Masochistic Aesthetic, and Laura Mulvey’s Visual Pleasure and Narrative Cinema, are used to support my assertion that the accepted definition of feminist pornography should be broadened to include porn that works on and against dominant ideology.

BRIANNE IMADA
Asian-American Studies
Advisor: Joyce Lu (Pomona)

Let There Be Light: Participatory Creative-Manual Arts Education Through Lighting Design

My project demonstrates the benefits of what I term “participatory creative-manual” arts education, an education that involves the mind and body in relationship to others. I track the history of the arts in social justice movements as well as the history of lighting design before moving into a section on pedagogy. Finally, I reflect upon my experience of implementing my design workshops with elementary students in Pomona.
"Am I Sexy Yet?": Contextualizing the Movement of Exotic Dance and Its Effects on Female Dancers’ Self-image and Sexual Expression

The movement of exotic dance, based on the context and location, changes meaning for the dancers, audience, and mainstream culture. This thesis analyzes how the experiences of the dancers affect their self confidence, sexuality, and sexual expression. Then, it applies Audre Lorde's “Uses of the Erotic” to their experiences to show how this movement can be looked at through that lens as deeper, more freeing, and more transgressive than it is usually thought to be.

The MSM deferral controversy: an analysis of the 2000 BPAC meeting

This thesis analyzes the role of scientific data in deliberations surrounding the MSM deferral in the 2000 BPAC meeting. Ultimately this thesis argues that while scientific data played a significant role in the deliberations it was the emergence of two distinct ontological platforms in the meeting and their inherent antagonism that led to ambiguity in the final vote and the continued use of the deferral.

Shots, Everybody?: British Anti-Smallpox Vaccination and the Development of Multifaceted Anti-Vaccine Rhetoric on Internet Parenting Forums

This thesis examines the rhetorical strategies used in anti-vaccine arguments on Internet parenting forums. I begin by providing historical context of anti-vaccine arguments by examining the resistance to smallpox vaccination in Victorian Britain, and the arguments made against vaccination by pre-existing dissenting groups. Then the DPT, MMR and HPV vaccines are discussed. I conclude that anti-vaccine proponents appeal to science in their arguments, claiming that vaccines are unsafe, unnecessary and ineffective.
LISA BEEM  
Environmental Analysis  
Advisor: Bowman Cutter

**Connecting Urban Resident to Their Watershed with Green Stormwater Infrastructure: A Case Study of Thornton Creek, Seattle, Washington**

Thornton Creek in Seattle, Washington, is a prime example of the problems in urban watersheds in the United States. I use a literature review and case study methodology to analyze whether green infrastructure, a new approach to stormwater management, can address the political, ecological, and social factors leading to poor watershed health. Results indicate that green stormwater infrastructure can improve urban watersheds if long-term maintenance and functionality are considered in infrastructure planning and design.

1:30 pm –2:30 pm  
Session C3  
Mathematics  
Moderator: Winston Ou

SZEYIN LEE  
Cognitive Science & Computer Science  
Advisor: Stacey Wood

**Designing A Better Internet Search Engine Based On Information Foraging Theory**

My thesis is to create a new way to visualize search engine results based on Information Foraging Theory (Pirolli 1995). The theory assumes that people optimize their behaviors to maximize the success of accomplishing the goal by selecting paths based on the expected utility from the information cues. The end result of the project was built using Google’s Application programming interface, latent semantic analysis, and data visualization tools to present user a more human-centered search experience.

SHERILYN TAMAGAWA  
Mathematics  
Advisor: Sam Nelson

**Quandles of Virtual Knots**

Knot theory is an important branch of mathematics with applications in other branches of science. In this talk, we explore invariants on a special class of knots, known as virtual knots. We find new invariants by taking quotients of quandles, and introducing the fundamental Latin Alexander quandle and its Gröbner basis. We also demonstrate examples of computations of these invariants.
MADELEINE BULKOW  
Mathematics  
Advisor: Stephan Garcia

Hyper-Kloosterman Sums in Supercharacter Theories

In this thesis, we review facts of representation and character theory to define supercharacter theories, which give a generalization of the characters on a given group. Supercharacter theories for \((\mathbb{Z}/n\mathbb{Z})^2\) and \((\mathbb{Z}/n\mathbb{Z})^m\) are constructed which contain Kloosterman and Hyper-Kloosterman sums. Graphing Hyper-Kloosterman sums, a conjecture made regarding a hypocycloid bound for the degree 2 Hyper-Kloosterman sums. The orthogonality relations from a supercharacter table give a proof of Mordell’s bound, a known bound of Hyper-Kloosterman sums.

1:30 pm –2:30 pm                              Session C4    Music                              Balch Auditorium
Moderators: Anne Harley and Chuck Kamm

KATHARINE MCGREGOR  
Music  
Advisor: Anne Harley

Expressions of Love and Betrayal: Music of Purcell, Handel, Mozart, Holmès, and Ravel

This recital assembles repertoire from the European art song tradition depicting both the most joyous and heart-wrenching aspects of love: betrayal, longing, heartbreak, and adoration. These art songs and arias, spanning a period of over 300 years, were composed by Henry Purcell, George Frideric Handel, Wolfgang Amadeus Mozart, Augusta Holmès and Maurice Ravel. The texts that inspired their music articulate the elusive states of love through metaphors involving the seasons, flora and fauna.

ANNA LOUISE WALTON  
Music  
Advisor: Tom Flaherty

Senior Composition Recital

This thesis is a portfolio of music that I have composed. It includes a choral piece, a set of three character pieces for piano, a string quartet, and chamber music for three string instruments and three mezzo-sopranos. This music was inspired by many composers, including Bartók, Messiaen, Barber, and Poulenc. Each of these pieces explores harmonic, rhythmic, and textural ideas that were drawn from the music of these composers.
CHRISTINE ZENEL  
Anthropology  
Advisor: Seo Young Park

A Paradoxical Paradise: The Marquesas as a Degenerate and Regenerative Space in the Western Imagination

This thesis examines representations of the Marquesas Islands in the Western imagination throughout centuries of evolving discourses on human nature and imperialist nostalgia. I argue that the islands are ascribed the identity of a paradoxical paradise, bolstering the colonialist ideology of social evolution: the islands are both degenerate (time-backwards and savage), and regenerative (time-backwards and transcendentally human). I explore how this paradox is dependent on a civilized West in historical accounts, literature, art and media.

JESSICA WARREN  
Anthropology  
Advisor: Seo Young Park

Growing Together Separately: An Analysis of the Influence of Individualism in an Alternative Educational Setting

This thesis examines the influence of Individualism in a school garden program at a California continuation school. Research, which included observations and interviews with program directors, interns, and students, was conducted during the spring of 2014. By providing an analysis of the Individualizing and non-Individualizing influences present in the program and their effects, my thesis sheds new light on the complex ways alternative educational settings incorporate some aspects of Individualism, even as they challenge it.

DANA SHAKER  
Anthropology  
Advisor: Seo Young Park

Dwelling in Possibility: Narrating, Requesting, and Providing Food "Options" in the Lives of Dietary-Restricted College Students

This thesis explores 5C dietary-restricted college students' reiteration of a “lack of [food] options” to understand not just what students want, but what they need to socially and culturally sustain themselves at Scripps College and in the greater 5C community. This thesis argues that those with and without dietary restrictions engage in efforts to facilitate access to food options, which in turn provides membership to and participation in all aspects of the residential college experience.
EMILY MATTESON
Anthropology
Advisor: Seo Young Park

Discourses of Menstruation: Public and Private Formations of Female Identity

This thesis examines the ways that Scripps students understand and experience menstruation as part of living in a women’s college environment. Through ethnographic interviews, I demonstrate the complex ways that students utilize menstruation to re-envision the public sphere, evaluate their relationships with other people, gain knowledge about the body, and question what it means to claim a female identity.

1:30 pm – 2:30 pm          Session C6  Politics & International Relations          Humanities 119
Moderator: David Andrews

EMMA BRILLHART
Politics & International Relations
Advisor: Mark Golub

A Hope That's Not so Hollow: How the Supreme Court's Decisions in Windsor and Perry Alter the Political Environment in which Marriage Equality Activism Operates

This thesis examines the way in which the Supreme Court's decisions in United States v. Windsor and Hollingsworth v. Perry have altered the political environment in which marriage equality activism operates. Specifically, this thesis argues that the Supreme Court can have an indirect effect on significant social change by changing the way in which activists are able to frame their message, as well as providing new legal precedent for litigative battles.

JESSICA GONCHAR
Politics & International Relations
Advisor: Jennifer Merolla

Clinton Connected: A Qualitative Analysis of the Portrayals of Hillary Clinton on Online News Blogs during the 2008 Presidential Primaries

Hillary Clinton faced gendered discrimination by news media sources during her presidential campaign in 2008. However, there is almost no research concerning the ways Clinton was portrayed on political blogs. Because blogs typically attract consumers who have similar ideologies, this paper explores if Clinton faced more gender bias on conservative blogs than liberal blogs. The results indicate that while gendered stereotypes existed throughout the blogosphere, they were more pronounced on conservative websites.
ELIZABETH SILVERMAN  
Politics & International Relations  
Advisor: Nancy Neiman Auerbach

**Sex Education in California: The Disconnect Between Legislation and Implementation**

This thesis explores the disconnect between California’s image as a national champion of progressive sex education and the state’s failure to implement and monitor the instruction of comprehensive sex education. School districts lack the state-backed funding and guidance to consistently and correctly implement comprehensive sex education programs. I argue that local pressure and grassroots action is the most effective, albeit labor intensive, way to get school districts to comply with sex education law.

NIKKI BRODERICK  
Politics  
Advisor: Mark Golub

**"This is Seattle": Parents Involved in Community Schools and the Grassroots Fight Against Busing**

Rather than rely on a narrative that solely blames conservatives for the demise of school integration, this thesis seeks to understand the history of liberal anti-busing movements in Seattle. Through case studies of three grassroots parental groups who fought against busing using ballot initiatives, this thesis argues that examining the history of segregation in Seattle and the efforts for integration (or efforts against it) illuminates the larger trajectory of “white” civil rights claims.

1:30 pm –2:30 pm  
Session C7 History  
Humanities 104

M
derator: Julie Liss

JANESSA INGRAM  
History  
Advisor: Julia Liss

**Cold War in the Courtroom: The International Military Tribunal at Nuremberg and the Development of the Cold War**

This thesis explores the International Military Tribunal (IMT) at Nuremberg in the context of the development of the Cold War. Through an examination of the building tensions between the United States and Russia in the first half of the twentieth century, this thesis argues that the IMT, the Allies' final act to eliminate the Nazi menace, was one of the first battles of the Cold War.
FRANCESCA SIMMONS
History
Advisor: Julia Liss

See the U.S.A. On Your New Highway: The Interstate Highway System As a Product of the Military Industrial Complex

This thesis explores how the campaign for the The Dwight D. Eisenhower System of Interstate and Defense Highways was a product of the 1950s military-industrial complex, which developed from a nationalist project seeking to confirm American exceptionalism during the early Cold War. It explores the history of road building in the United States, as well as the military, economic, and political arguments of the campaign for the Interstate Highway System.

GILLIAN VARNEY
History
Advisor: Julie Liss

"Votes For Mothers": The National Woman's Party's Conflicted Arguments for Women's Suffrage, 1913-1920

This thesis examines the inherent contradictions in the National Woman’s Party’s (NWP) militant campaign for a constitutional amendment to enfranchise American women. Exploring the ways in which the NWP used contemporary racial and class-specific views of femininity, domesticity, and motherhood to legitimize women’s right to vote, this thesis argues that the NWP’s rationale for women’s suffrage fragmented and undermined the American feminist movement and actually served to perpetuate white patriarchy in America.

BLAKE LAUFER
History
Advisor: Andrew Aisenberg

The Y-Word: The Development of Anglo-Jewish Identity As Evidenced By Tottenham Hotspur Soccer Club’s "Yid Army" Supporters

This thesis looks at the historical relationship between Britons and Anglo-Jews through the lens of Tottenham Hotspur supporters' "Yid Army." The influx of Eastern European immigrants in the 1880s, the rise of the British Union of Fascists and the continuing evolution of British national identity speaks to a trend within Anglo-Jewish identity formation. Debates within the Jewish community of how best to live in British society, be it through assimilation or reassertion of Jewishness, have continued to the present day. By looking at the history of the Anglo-Jew in Britain one is able to see that the events surrounding the Y-word in soccer are based in a larger history of the Jewish struggle to form an Anglo-Jewish identity in the midst of an ever-evolving notion of Britishness.
The genotoxic potential of Bisphenol-A (BPA), Butylated Hydroxyanisole (BHA) and Butylated Hydroxytoluene (BHT) and their role in abnormal morphogenesis

Bisphenol-A (BPA), Butylated Hydroxyanisole (BHA), and Butylated Hydroxytoluene (BHT) are synthetic phenols used industrially, but is potentially hazardous. The model organism schizosaccharomyces pombe is used because cellular responses in yeast correspond to the biochemistry in higher eukaryotes. To investigate genotoxicity, fluorescence microscopy is employed to observe abnormal phenotypes and Rad22 foci. Novel evidence reveals that BPA induces abnormal morphogenesis and generates double-stranded breaks. The range of abnormal phenotypes demonstrates that phenols may have multiple targets.

7-AMD Binding is Stabilized by π-Stacking Interactions: an NMR Study

Cre is a biologically significant DNA sequence that binds the DNA-intercalating, anti-cancer drug 7-AMD. This project utilizes NMR spectroscopy to study base pair opening dynamics of the Cre binding site in the context of five flanking sequences, and aims to correlate these findings with 7-AMD binding affinities. Trends in the preliminary data indicate that sequences with slower base pair opening dynamics bind 7-AMD well, suggesting that 7-AMD binding may be stabilized by π-stacking interactions.

A volumetric study of aqueous butanol solutions

Alcohol molecules consist of two distinct regions: a polar alcohol group and an aliphatic hydrocarbon chain. The presence of contrasting interactions in an alcohol-water solution affects the properties of the solution, such as the molar volume. This thesis shows that three variables have a noticeable effect on the volume of alcohol-water solutions: the size and location of the hydrophilic moiety, the concentration of the solution, and the temperature at which measurements are made.
D Sessions

2:45 pm – 3:45 pm  Session D1  Art  Ruth Chandler Williamson Gallery
Moderator: Susan Rankaitis

ANNA AQUA
STUDIO ART
ADVISOR: Susan Rankaitis

de/constructing landscape

This project explores the everlasting structures of Los Angeles freeways and possibilities of experiencing those structures in time and space. I take these as a jumping-off point for processes of defamiliarization and disorientation, seeking to propose alternate trajectories of experience and understanding. My animation explores these and other themes by locating them in specific structures and moments, erasing, altering, and reconstructing the landscape. It also incorporates sound, a crucial element of the freeway experience.

NICOLE CHAN
Art
Advisor: Susan Rankaitis

Xing: Sex, Gender and Revolution in Contemporary Chinese Art

This project the intersections of gender, sexuality and revolution in contemporary Chinese art through the lens of the Chinese Cultural Revolution. As an integral part in the process of narrative reconstruction, the propaganda imagery from the Cultural Revolution provides important insights into societal expectations for the masses.

AUDREY HOWELL
Studio Art
Advisor: Susan Rankaitis

The Biomorphic Grotesque in Modernist and Contemporary Painting

This project included a fall written thesis that examined themes of hybridity, biomorphism, and the grotesque in modern painting, and discussed contemporary artists whose work is currently expanding and re-defining these themes. The spring project is a series of large scale abstract paintings that delve into the grotesque’s relationship to ambiguity and fantasy. They use organic texture and gesture to emulate natural biology, but remain indistinct and undefinable in order to engage the viewer’s imagination.
ALLISON RIEGLE
Art
Advisor: Ken Gonzales-Day and Susan Rankaitis

Riegletmatica: Re-Imagining the Photobooth Through Female Performativity and Self-Portraiture

This thesis examines the history of the chemical photobooth, analyzing the aesthetics of the space and the border between private and public spheres. Allison served as an apprentice to a family that restores photobothes in Texas and restored the violet booth that is here today. Capturing herself in nearly 300 photo-strips, Allison's performative self-portrait series is a response to being observed as a child within a public political family, and now as a woman.

DOMINIQUE SMITH
Art
Advisor: Ken Gonzales-Day

Body Politics

This thesis artistically explores the commodification of black bodies in the United States, during the Civil War and how the practice has been perpetuated in our modern day prison industrial complex. Black people were used to build the United States. Today, the United States has merely modernized and reinstitutionalized slavery in the form of a jail cell as a means for putting money into the pockets institutions. With this in mind, I created Body Politics.

ALEXANDRA TRIMM
Studio Art
Advisor: Susan Rankaitis

Shatter

"Shatter," a suspended installation of tempered glass that hangs in the form of a dress, explores constructs of beauty and expectations placed on women to fit an idealized, unrealistic image. This piece highlights the danger of striving to attain these constantly changing beauty standards. To complete the work, the viewer is invited to step inside the dress.

MERIDITH BURCHEIL
EMILY QUINN FINNEY
Physics
Advisor: David Wittman

*Using Radio Relics to Constrain the Dynamics of 1RXS J0603.3+4214*

Galaxy clusters, the most massive gravitationally bound objects in the universe, provide an important setting for exploring the structure and interactions of matter in the cosmos. This thesis examines the galaxy cluster 1RXS J0603.3+4214 (Toothbrush Cluster), incorporating information about its radio relics into Monte Carlo simulations to constrain its inclination angle and other parameters. When applied to many galaxy clusters, these constraints may assist in exploring the validity of different dark matter models.

KILEY LAWRENCE
Biophysics
Advisor: Mary Hatcher-Skeers and Paul Nerenberg

*A Molecular Dynamics Investigation of Sequence Context Effect On CpG Methylation in DNA*

In this work we perform MD simulations of six DNA sequences, previously characterized using 31P NMR, which contain protein recognition sites with differing flanking sequences. This allows for the rigorous assessment of sequence context effects on the conformational ensemble and dynamics of the DNA backbone. Our data indicate that sequence context plays a significant role in backbone dynamics. These data also demonstrate that recent force field enhancements successfully reproduce patterns of backbone structure determined by NMR.

GEORGIA MACY
Biophysics
Advisor: Paul Nerenberg

*The Effects of CpG Methylation on BI-BII Equilibrium in DNA*

Methylation affects the regulation of many biological processes. In B-DNA, methylation can alter the frequency with which a dinucleotide step samples BI and BII conformations. Changing the BI-BII equilibrium can affect the ability of proteins to bind to DNA, which may ultimately alter gene transcription. Using MD simulations, we evaluate the effects of methylation on the BI-BII equilibrium of two sequences. Methylation had differing stabilization effects on BI-BII states depending on the step type.
ALEXANDRIA GONZALES
Physics and Mathematics
Advisors: Scot Gould, Winston Chi-Wei Ou, John A. Johnson, Jonathon Swift

*The Great Galactic Oversight: Characterizing the Most Numerous Stars in the Galaxy*

Stars with masses roughly less than half a solar mass ($M_{\odot}$) constitute 75% of all stars in the Galaxy. However, due to their enigmatic nature, these small-mass stars remain difficult to characterize. We aim to increase our understanding of the physical properties of these stars through the study of eclipsing binary systems. By utilizing precise photometric data from NASA’s Kepler Mission, we characterize all M dwarf eclipsing binaries in the Kepler dataset. With an absolute mass scale for the eclipsing systems, we also fully characterize the individual stars in terms of their mass, radius, and temperature. From these observables, we can then derive the stars luminosities.

2:45 pm – 3:45 pm    Session D3    Feminist, Gender, Sexuality Studies    Humanities 120 Interdisciplinary Majors

Moderator: Piya Chatterjee

EMERY LIBERMAN-AUERBACH
International and Intercultural Studies; Concentration: South Asian
Piya Chaterjee and Joe Parker

*The Crisis of Migrant Motherhood: Exploring North Indian Domestic Work and Interstate Migration*

This thesis predominantly seeks to demonstrate how the entanglements of class, patriarchy and global capital exclude the stories of North Indian migrant mothers, forced to migrate from their rural villages to find domestic work in urban middle class homes.

TESSA PAOLI
Politics
Advisor: Nancy Neiman Auerbach

*Deconstructing the Sex Workers’ Rights Movement in San Francisco: Histories from Below*

My thesis investigates the sex workers’ rights movement in San Francisco. In it I analyze the rhetoric of the movement, and also uncover sex work narratives that push against societal ideas of legitimate work, empowerment, agency and resistance. This project also explores the racial, classed and gendered exclusion within the sex workers’ rights movement and how this has led to the privileging of some voices and the silencing of others.
ANNA PETKOVICH  
English and Feminist, Gender, and Sexuality Studies  
Advisor: Piya Chatterjee

"Her Power is Her Own": Classed Confines, Gendered Expectations, and Questions of Social Movement in The House on Mango Street  
This thesis explores the implications of socioeconomic class for the formation of gender and sexual identities. Utilizing theories of class and gender, I suggest that because class location frames social relations in terms of privilege and movement, other identities are similarly conceptualized; effectively, gender performance and sexual behaviors become attached to notions of value and social mobility. I turn to Sandra Cisneros's The House on Mango Street to think through the nuances of this argument.

2:45 pm – 3:45 pm  
Session D4  Geology & Molecular Biology  
Moderator: Nancy Williams

ALEXA ZILBERFARB  
Geology  
Advisor: Jade Star Lackey

Metamorphism of Cretaceous Sandstones by Natural Coal-fires, San Rafael Swell, UT  
Metamorphism by coal fire occurs at temperatures exceeding 1000ºC and pressures at or less than 1 kbar. The rock surrounding these burning coal seams “bake” into clinker deposits, or can melt into paralava. This study examined the paralavas and associated deposits in Utah compositionally and mineralogically to determine melting conditions, peak temperatures, and mobility of different metals resulting from pyrometamorphism. Temperatures are estimated to have reached at minimum 1330–1465ºC based on mineral phase equilibria.

JANE EISENBERG  
Geology  
Advisor: Jade Star Lackey

Structure, Composition, and Emplacement History of Orbicular Granites and Comb Layering, Sierra and Sequoia National Forests, CA  
Orbicular and comb layer textures in igneous environments are evidence of an unusual heating and cooling regime in small pockets at the edges of crystallizing magmas. This study analyzes orbs and comb layers collected from two localities in the Sierra Nevada Batholith to determine 1) how they formed and 2) what their formation history reveals about the emplacement histories of their respective host plutons.
MARGARET NURIMBA  
Molecular Biology  
Advisor: Irene Tang

*Roles of SR Protein Kinase Dsk1 and LAMMER Kinase Kic1 in mRNA Processing in Fission Yeast Schizosaccharomyces pombe*

Protein kinases are known to be fundamental regulators of essential biological processes including gene expression; however, their specific roles in such processes remain largely unknown. This thesis utilizes a novel protein tagging system to explore the function of Serine/Arginine Protein Kinase Dsk1 and LAMMER kinase Kic1 in the mRNA processing pathway of gene expression, demonstrating for the first time that Dsk1 and Kic1 are required for efficient mRNA export out of the nucleus.

**2:45 pm –3:45 pm Session D5 Classics, Dance, Philosophy, & Religious Studies**  
Moderator: Yuval Avnur  
Humanities 101

LILY STEWART  
Religious Studies  
Advisor: Andrew Jacobs

*“Canonizing Episcopal ‘Naughtiness’: Negative Depictions of Bishops and the Bishopric in Late Antique and Medieval Hagiography”*

This thesis discusses the anxieties about the episcopal human-element exhibited in late-antique and medieval hagiography. By exploring depictions of naughty bishops and the negative reactions of holy bishops to their office, I argue that these texts work apologetically for the episcopacy by establishing the corruptibility of the office's human aspect as an expected norm, and highlighting in contrast the extreme difficulty and laudability of living up to the office's divine aspect.

MARIE ANGELES  
Philosophy  
Advisor: Yuval Avnur and Cheryl Walker

*On the Matter of God’s Goodness: An Examination of the Failure of Theodicies, Herman Melville, and An Alternative Approach to the Problem of Evil*

This thesis first examines theodicies and argues that theodicies fail to solve the problem of evil in a world with suffering and a perfect God. I then consider how Herman Melville struggled with the problem. I claim that his works offer part of the solution to the problem of evil, which is that God is not good. My final chapter demonstrates how God is not good and not evil which removes the problem of evil.
TARA GODZICH
Classic Studies
Advisor: Ellen Finkelpearl

*Politicking Apollo: Ovid's Commentary on Augustan Marriage Legislation in the Ars Amatoria and the Metamorphoses*

This thesis examines how Augustan poets manipulate Augustus’ political affiliation with Apollo to express their opinions about the emerging imperial regime in Rome. Specifically through a close examination of the Ars Amatoria and the story of Apollo and Daphne in the Metamorphoses, this thesis argues that Ovid conveys his disapproval of Augustan marriage legislation by excluding Apollo in matters of love.

EMILY SIMMONS
Dance
Advisor: Ronnie Brosterman

*All that pushes and pulls: A Choreographic Exploration of the Blurred Relationship Between Individuality and Conformity*

All that pushes and pulls is a modern dance work that explores trends of individuality - social movements that emphasize individualism in an attempt to break from the conformity of mass society yet eventually become adopted into mainstream norms. Through emphasis on personal movement styles, manipulation of uniform choreography, and group dynamics, the piece illustrates how individuals navigate these trends in a society where individual expression has become a requirement rather than a suggestion.

2:45 pm – 3:45 pm  
Session D6  Psychology  
Humanities 204

JULIE VAISAROVA
Psychology
Advisor: Alan Hartley

*Witches, Warlocks, and...Fulgurites?: Learning Information from Fantasy Fiction*

By definition, fictional stories contain some false information. This project examined readers’ use of novel facts from fantasy and realistic fiction, to assess whether readers’ tendency to use information from fictional stories in later situations stems from the assumption that these stories accurately portray reality. The results suggest that readers are less likely to use novel information from fantasy than from realistic fiction, in part due to post-retrieval evaluations of the source genre’s perceived veracity.
ELIZABETH DIEBEL  
Psychology  
Advisors: Stacey Wood & Alan Hartley  

**Psychological Processes Involved in Skilled Golf Performance**  
This research assessed the influence of golfers’ mindsets on their performance. Better performance was expected from golfers with a strategic mental approach. Prior to performing three golf shots, participants gave descriptions that were expected to challenge their performance mindsets. This manipulation was not effective. However, significant correlations were found between golf performance and two hypothesized performance mindset components, confidence and concentration, suggesting that successful golf performance may be related to a particular mindset.

ISHANI DEO  
Psychology  
Advisor: Sheila Walker & Judith LeMaster  

**Cultural Factors in Mental Health Referral Among Asian Americans**  
This study looks the lack of mental health service utilization among Asian Americans by exploring what factors influence the likelihood of an individual referring their friend to mental health services. Participants were 60 Asian American and 49 White American college students who evaluated vignettes in which cultural competency of the potential therapist and the symptoms the friend was presenting were manipulated. Though no significant interaction was found, additional analyses suggested cultural differences in symptom diagnosis.

KAITIE MARSHALL  
Politics & International Relations  
Advisor: David Andrews  

**Keeping Iran from the Bomb: The Obama Administration and the Puzzle of the Iranian Nuclear Program**  
After more than thirty years of hostility between the two nations, Iran and the United States recently reached a breakthrough agreement whereby Iran is suspending nuclear development in exchange for sanctions relief from the United States. This thesis analyzes how the agreement was made possible and explains what could impede future progress. To have sustained diplomacy, the United States and Iran must each receive domestic political benefits without compromising ideology or national security interests.
KAREN CASTRO-AYALA
Politics & International Relations and Legal Studies
Advisors: Nancy Neiman Auerbach, Steven Samford, Mark Golub

**El neoliberalismo y la lucha por tierras en Sinaloa, México según mi Papa Món**

Narrating my grandfather’s struggle for land tenure as a *campesino* in Sinaloa, Mexico who was theoretically positioned to be a “winner” of the “neoliberal corn regime,” this thesis explores how he has experienced and engaged in organized resistance to the federal state’s implementation of a neoliberal agenda. By using an oral history methodology, this thesis argues that people’s—specifically small-scale farmers’—experiential knowledge is legitimate, important, and critical to truly understanding the impact of neo-liberalizing México’s economy.

ORIANA LAVILLA
Politics & International Relations
Advisor: David Andrews

**Reconciliation and The Rule of Law: The Changing Role of International War Crimes Tribunals**

This thesis examines the relationship between international war crimes tribunals and peacebuilding in post-conflict societies. Specifically, exploring how the role and function of international tribunals has changed since the establishment of the Nuremberg tribunal in the early years after World War II, this thesis argues that the International Criminal Tribunal for the former Yugoslavia (ICTY) set a new precedent for international tribunals—facilitating reconciliation through public outreach and domestic rule of law capacity building.

YASMINE ACHEAMPONG
Politics/International Relations, French Studies
Advisor: Steven Samford

**A wager through the looking glass: Differences in the Management of Horizontal Inequalities in Ghana and La Cote d’Ivoire**

This thesis explores the role of early post-colonial policies on the management of Horizontal Inequalities in Ghana and La Cote d’Ivoire. The study charts the manner in which Horizontal Inequalities have been managed during three periods: Independence, Structural Adjustment and Democratization. This thesis argues that as a result of the development models chosen during independence, structural adjustment and democratization, inequalities increased. However, in Ghana, these horizontal inequalities have been managed more efficiently than in Cote d’Ivoire.
Discourses of Domination: A Comparative Historical Analysis of Development in Haiti

In this thesis, I seek to understand the history of development discourse in Haiti. I argue that a violent and chronically unstable juxtaposition between “civilized” elites and “uncivilized” masses creates and sustains a political system of brutal exploitation. A racialized logic lies at the heart of the civilization fantasy and maintains the economic, political and cultural configurations of peasant and proletariat oppression in Haiti.

Pseudodemocratic Rhetoric and Social Hierarchies: the Relative Lack of Influence of Rousseau’s Radical Egalitarianism on Early American Political Thought

While Jean-Jacques Rousseau is one of the most influential Enlightenment writers in history and while Enlightenment theory was integral to the American Revolution, Rousseau was not a major influence on American political thought. In this thesis, I argue that this was mostly because of the conflict between Rousseau’s egalitarianism and Federalist political projects. I further argue that tensions between early American politicians and Rousseau's theories of egalitarianism showcase the pseudodemocratic nature of early American politics.

"Egiazko Misterioa Euskararen": La politique linguistique, les méthodes éducatives, et la revitalisation de la langue basque en France et en Espagne du vingtième siècle jusqu'au présent

The Basque Country, a region that spans the border of France and Spain, is home to the Basque language. I examine its long and vibrant history and how its use has been affected by the language policies of France and Spain. I focus on the French Basque Country, where the number of Basque-speaking bilinguals is decreasing, and explore governmental and community efforts promoting language use. I then draw several conclusions about viable future revitalization efforts.
ROSE DUCHARME
English & French Studies
Advisor: Aaron Matz (English), Claire Nettleton (French)

*Mad Love and Narrative Uncertainty in the Twentieth Century: A Study of The Good Soldier and Le Ravissement de Lol V. Stein*

This thesis examines narrative uncertainty in the twentieth century novel as it relates to madness, adultery, and the convention of the unreliable narrator. The unreliable narratives of Ford Madox Ford’s *The Good Soldier* and Marguerite Duras’ *Le Ravissement de Lol V. Stein* expose their characters’ investment in illusions, the doubling of the narrators’ and readers’ desires to interpret, the transfer of madness through narrative, and the possibility that a void of meaning underlies the text.

3:45 p.m. – 5 p.m.  Scripps Tea “Celebrating Our Seniors”  Margaret Fowler Garden

5 p.m. – 6 p.m.  Seniors vs. Faculty / Staff Soccer Game  Tiernan Field House

Senior Captain: Maddie Ripley
Faculty/Staff Captain: Thierry Boucquey
Announcer: Blake Laufer