Alexander, Kevin

Heaven Sent Not Angels and Other Stories: A Reading from a Creative Writing Thesis

This collection of short stories straddles the line between science fiction and modern fabulism, eschewing easy genre tropes and instead directing the more fantastical elements of each narrative towards an exploration of human reactions to the unknown, incomprehensible, or unbelievable. Characters grapple with the limits of family affection and the danger of misplaced trust, and many also negotiate burgeoning queer identities. With vivid but readable descriptions and careful attention to the nuances of character and personality, I draw on the legacy of authors as varied as Ted Chiang, Octavia Butler, and Zadie Smith to inspire my own creative voice.

Alunan, Ash

How can we begin to decolonize biology?

Through the expansion of scientific knowledge, scientists have harmed marginalized communities and limited discovery. Science is a reflection of our culture and cannot be understood without examining race. An honest reckoning with our legacy of colonialism is needed to build an inclusive process of science. I propose to examine our culture using intersectionality theory, considering how social determinants such as race, sex, and ability create compounding systems of oppression that impact the accuracy of scientific findings. I will employ autoethnography which gives voice to marginalized experiences. Findings from this research inform a path towards necessary transformation of the scientific community.

Andrews, Cassidy

Alexander Hamilton & Aaron Burr: Friends, Foes and Foils

This presentation will focus on the 2016 Tony Award-Winning Best Musical Hamilton: An American Musical created by Lin-Manuel Miranda. After providing a quick summary of the musical and its two main characters, Alexander Hamilton and Aaron Burr, I will discuss the functions of rap and lyrical (non-rap) music throughout the musical and how these styles emphasize Hamilton and Burr’s individual character traits. With this knowledge we can understand how the music helps drive the story as Hamilton and Burr’s friendship deteriorates into a life-long rivalry.

Andrews, Cassidy

Tokyo Disneyland: A Uniquely Japanese Experience and "International" Simulation

This presentation will focus on the Tokyo Disneyland Resort, founded in Chiba prefecture in 1983. Since its conception, it has seen many changes and expansions, especially over the past twenty years. In his book Riding the Black Ship: Japan and Tokyo Disneyland, published in 1999, Aviad E. Raz claims that, "Rather than being an agent of Americanization, Tokyo Disneyland is a simulated 'America' showcased by and for the Japanese." I plan to analyze how the recent expansions of the Tokyo Disneyland Resort have modified Raz's claim from an "American" simulation to an "International" simulation.

Arberry, Raina

Prisons for for Sale; A Neoclassical Analysis of Price Regulation in the US Privatized Prison Industry

Private detention centers are becoming more popular worldwide; the industry is now worth over a billion dollars. The current state of the US private prison industry is a government funded oligopoly of corporations that do not have a positive history regarding safety or reducing recidivism. With corporations’ primary goal being to make a profit, the current pricing measures carried out between the government and these companies allows firms to reduce the quality of prison care to increase capital gain. This profit incentive explains why price regulating these corporations has become a controversial subject. This paper seeks to analyze how the current for-profit prison system's pricing techniques would be analyzed by neoclassical economists and alternative pricing techniques for an industry with significant externalities.

Baig, Mariam

Tweeting Up A Storm: Effects of Masculinity Through Media on International Relations

This thesis will analyze the effects of gender presentation on transnational relations. Specifically, it will examine how different world leaders portray masculinity through various forms of media (online, speeches, etc.) and how that depiction may affect their
connection with another nation. I will analyze the relationships between three current world leaders - that is, Donald Trump, Emmanuel Macron, and Kim Jong Un - and pairing that with their masculine presentation. I will use both to explore the effects their interactions have on their communication as well as their general impressions of the other leaders in question.

Bajema, Ben

An Analysis of Shozo Tanaka's Ecological and Social Ethics in Regard to the Ashio Copper Mine Pollution Incident

A biographical study of Shozo Tanaka, Japan's first environmental conservationist and human rights activist, and an analysis of his ethics of nature, civil rights, religion, and politics. Drawing from English academic texts and through a translation of a Japanese biography into English with commentary, I have found that these four ethical categories drove him to fight against the Ashio Copper Mine Pollution Incident in Meiji Japan and allowed him to imagine an alternative view for Japan’s future that differed greatly from national goals of industrial advancement.

Barry, Olivia

More Than Meets the Eye: Dissecting Bellori's Descriptions of Guido Reni's Paintings

In seventeenth-century Europe, Giovanni Pietro Bellori (1613-1696) wrote extensive descriptions of paintings in his biography of Guido Reni. This presentation will examine Bellori's critical methods of visual analysis by comparing his descriptions of Reni's Annunciation and Nativity of the Virgin in the Quirinal Palace in Rome. In accordance with the reception theory formulated by German literary scholar Wolfgang Iser, the analysis will attempt to find art historical equivalences to those literary categories. It will be argued that while Bellori focuses primarily on the written narratives the paintings are based on, the moments where he diverts from the textual source reveal his attention to the pictorial qualities achieved by Reni in his images.

Bengston, Louis

Analysis of Quasi-Two Dimensional Kolmogorov Flows using the Method of Slices

The Kolmogorov flow profile, in which adjacent fluid layers flow past each other in opposite directions, is analyzed here, first in a linear configuration and secondly in a circular configuration. When the adjacent fluid layers are made to move too quickly past each other, their laminar flow profile breaks down into an array of vortices, eventually decaying into turbulence. Here I employ particle image velocimetry and the method of slices in order to better understand or discover underlying structures or patterns in turbulent flow.

Bento, Avery

No War but Class War: How Class-Conflict Based Worldviews Shaped the ILWU

In my thesis I ask this question: How has the ILWU managed to maintain its strength and militancy over time as other American unions have fallen by the wayside? I argue that the answer to this question is that the ILWU was born from a brutal example of class-conflict and then ingrained this experience in their institutional identity, which in turn allowed them to aggressively organize, always operate with respect to the experiences of their own workers, and extend solidarity to other workers.

Bento, Avery

Union Density and Free-riding; An Empirical Study of Right-to-Work Laws

My thesis seeks to answer this question: How do Right-to-Work laws affect union density? I examine the origin and expected effects of Right-to-Work laws according to economic theories of free-riding. I then recreate an econometric model from 2004, examining this question using different states as case studies and data which has been updated to include the last 20 years. I then examine the results in light of social capital theory, as presented by Dr. Robert Naylor, and outline policy recommendations.

Benz, Clarice

Walks with Richard Long: Preserving the Non-Sustainable Image

This presentation explores the work of the land artist Richard Long and focuses, in particular, on his double method of creating art, on the one hand, located directly in the environment and, on the other hand, to be displayed within a museum or gallery setting. It will be argued that his work is both a performance and a mode of interaction with an audience through a process of art
production/presentation that implies multiple facets of time and raises many questions related to the concept of site specificity. By comparing and contrasting his works created in an environmental setting versus the ones elaborated specifically to be located in a museum and gallery space, the ideals of preservation and intentionality in the artistic process are challenged.

Bishop, Emily
Warm-up options for throwing athletes: A comparison of dynamic warm-up, static stretching, and resistance exercise

Bolle, Joshua
Swiping Left on Discriminatory Behavior: Norms, Whiteness and Discrimination on Dating Apps
This thesis examines how queer men talk about their "preferences" and experiences using dating apps such as Tinder or Grindr through seven semi-structured interviews. Participants discussed enforced norms on dating apps, an awareness (or lack thereof) of their racial identity, and their discriminatory desires. White participants were not aware of their white identity when using dating apps, and most of my participants discussed certain body preferences as affecting their desires. These findings demonstrate the necessity of users to acknowledge how sociocultural messages about who is perceived as desirable affect their choice of partner(s) on these apps.

Burton, Benjamin
Fair Isle Documentary
This presentation reflects on Benjamin Burton's travels to a remote Scottish Isle in search of 21st-century professional knitters. Discussing the history, significance, and necessity of hand knit items from Fair Isle, Scotland and around the world. The presentation will contain clips from the documentary as well as exclusive clips not featured. From initial ideas, finding interviewees, missing flights, and renting a bed for 2 bottles of Lucozade and a fifth of vodka, Burton will provide an in-depth look at the filmmaking process in its entirety.

Cannady, Ariana
Unraveling the Mechanisms of Autoimmune Disorders: Examining the role of early infection and microbiome disruption in immune development, function and autoimmune pathology
Autoimmune diseases are chronic, often debilitating disorders characterized by one’s immune cells attacking their body. Genes and environment are important factors in these disorders however the exact mechanisms are still largely unknown. Studies have shown that the microbiome is important in the regulation and function of the immune system. This project examines in a zebrafish model how early exposures to infection can disrupt microbial community composition, influencing the expression of key immune genes and consequently the development and function of the immune system. Understanding the interactions of the microbiome and immune system could be key in understanding autoimmune mechanisms.

Canniff, Megan
Landscape and Identity: Reading Willamette University's Campus
A campus landscape represents many generations of aesthetic and symbolic choices made by administration, staff, faculty, and students. Landscape, like a text, combines narrative and memory in both natural and constructed spaces. Last summer, I 'read' WU’s landscape to understand how culture and history have interacted with space over time. I focused on landscape (oak savanna, fire-managed by the Kalapuya) predating the institution, commemorative events (100th and 150th anniversaries), the periods of ‘development’ and modern changes in landscape (Mill Stream, Jackson Plaza). This research is part of a larger conversation about park-like campuses and how humans shape and are shaped by their environments. University landscapes are reservoirs for fluid narratives that shape and are shaped by landscape. Space interacts with the culture and identity of many groups, creating memory and, therefore, place. Individual narratives contribute to landscape heritage, making this project an attempt to share an expanded social and natural history with the larger WU community.
Carlson, Keith
Amazon Alexa Skill and Time Series Forecasting Model to Predict the Washington State Ferries
The steep rise in ridership has made the use of the Washington State Ferry system more and more troublesome due to long delays during peak hours. My project focuses on the creation of an Amazon Alexa skill and a time series forecasting model that are connected to provide easy and accurate predictions of ferry departure times. This skill will tell the user when the best time to leave for the ferry is and save time normally wasted waiting at the terminal for a delayed boat.

Carr, Hazel
Assessing the importance of urban Oregon white oak stands as habitat for slender-billed white-breasted nuthatches
Slender-billed white-breasted nuthatches (*Sitta carolinensis aculeata*) are highly associated with Oregon white oak-prairie habitat. Recent analyses suggest a 95% decline in Willamette Valley nuthatches following European settlement. To assess the relative value of remnant oak-prairie habitat across a rural-urban gradient a long-term study of avian abundance using Audubon Climate Watch point-count protocols was initiated in January 2019 (n=24) in and around Salem, Oregon. Habitat structure was evaluated using LiDAR data and new monitoring methods were piloted using a Wildlife Acoustics Song Meter SM4 Recorder. Data will be used to inform conservation management of nuthatches and their habitat.

Carriere, Joe
Comprehensive Animal Policy Review at Primarily Undergraduate Institutions: A Case Study of Willamette University with Recommendations to the Campus
With the ever growing number of Service and Emotional Support Animals, the preparation of a comprehensive policy that encompasses as much information as possible is a necessity. Information has been assembled covering variety of topics from risk and safety of Service Animals in the laboratory setting to general information about the Institutional Animal Care and Use Committee. This review is being compiled in order to provide as much information as possible for Willamette for use during the upcoming review of the policy regarding animals on campus on June 1, 2019.

Chary, Meg
Beyond the Self: Egon Schiele's Self-Portraits and the Viennese Medical Audience
This presentation explores the significance behind the stylistic and iconographic choices made by Austrian artist Egon Schiele (1890-1918), in a selection of self-portraits done between 1907 and 1915. It will examine the possible aims and implications surrounding Schiele’s distinctive representation of the male body, within the context of psychoanalytic and pathological lenses. Photographs published within French medical journals depicting patients diagnosed with physical and mental illnesses were commonly viewed as pathological spectacles by Viennese medical, artistic and intellectual audiences during the 1910s. This presentation will analyze how the selected self-portraits by Schiele could be interpreted as his response to issues raised by specialists within the medical field.

Chen, Eurydice
The Effect of Governmental Policies on Inflation in the Chinese Housing Market
This study examines the effects of government policy on the inflation of housing prices in China over the past 20 years. I analyze practices of local and central governments in a country with a unique land and fiscal structure. Applying theories of supply and demand, and speculative demand, I argue that local government behavior has aggravated inflation in the Chinese housing market, while ineffective policies have failed to stifle growing speculative demand.

Chergosky, Michael
Writing "Tabula Smaragdina"
For my senior thesis, I wrote a concert aria for baritone soloist and chamber orchestra based off of the "Tabula Smaragdina", an ancient alchemical text. I will talk about the atonal processes that I used to shape the piece, as well as the ways in which I used the structure of the text to inform the musical structure. I will then talk about specific orchestration choices that I made, and what issues arose in performance.
Cleaver, Maddie
An Implied Threat: Precarious Black Life, Lynching, and Eugenics
This research provides a historically-informed analysis of American projects in anti-Black racial terrorism. This project seeks to theorize and understand the motivations, technologies, and effects of two phenomena from the turn of the twentieth century: eugenics and lynching. Analysis of these events are not traditionally compared within critical race theory or American histories, but can strengthen criticism of a particular kind of American racism. Central to analysis are theories from Foucault, Althusser, "A Spectacular Secret" by literary scholar Jacqueline Goldsby, and newcomer Kyla Schuller with her work "The Biopolitics of Feeling". What can be concluded is that, through both biopolitical ideologies and state-sponsored violence, the American eugenics movement and mass lynchings served to uphold white supremacy by producing literal, figurative, and intergenerational traumas, particular to the experiences of Black life.

Coba, Henry
The Recording Experience: A Studio Album and Video Documentary

Coleman, Samantha
Comparing Bee Communities in Urban Salem, Semi-rural Parks, and Rural Restoration Sites
Abundance of both native bees and plants are declining due to habitat loss and fragmentation. We predicted that urban environments would have lower abundance and diversity of native bees than rural environments due to lack of native plants to provide floral resources. We surveyed a total of six field sites in and around Salem, Oregon, visiting weekly in June and July 2018. The urban and rural bee communities were different, while large parks were intermediate. We found that non-native plant species tend to attract more bees because of the dominant presence in urban and rural environments.

Corpuz, Beth
Reactivity of Anti-Cancer Ruthenium-Based Drugs RAPTA-C and RACAP with Transferrin Protein
Ruthenium-based chemotherapeutic drug RAPTA-C has been shown to inhibit tumor growth even at moderate doses and displays strong anti-metastatic activities. Recent studies have also shown that its newly developed analogue, RACAP, exhibits even higher selectivity for cancer cells with greater cytotoxicity. However, the mechanisms behind these characteristics are not well understood. This study utilizes UV-Vis spectrometry and kinetics analysis techniques to assess each drug’s reactivity with transferrin, a protein possibly responsible for these drugs’ selectivity for cancerous cells. Experiments were completed in a variety of conditions that mimicked the chemical environment of healthy human cells and cancer cells.

Crafton, Lance
A table-top experiment to optimize magnetic resonance pulsing for laser guide-star applications
Images of the night sky taken by Earth-based telescopes are often distorted by atmospheric turbulence. Data on well-documented stars can be used to correct for this via adaptive optics, but these guide stars are not always visible from all locations. One proposed solution to this problem is to create artificial guide stars by using lasers to induce fluorescence in the upper-atmosphere. Our research focuses on ways to optimize the brightness of these laser guide stars through table-top laboratory experiments, using magnetic fields and pulsed laser beams with varied polarization and frequency for magnetic resonance pulsing.

DeLee, Grace
Feminism in Dostoevsky
The research presented in this paper examines the "women question" that people often pondered when reading Dostoevsky. The literature draws from several scholars and their opinions regarding evidence for Dostoevsky's opinion on feminism. Space in the research must be made for questioning how Dostoevsky would have thought of feminism today.

Dewson, Gabrielle
The MARCKS Gene as a Targeted Treatment of Acute Myeloid Leukemia
With the advancement of genome sequencing, researchers have been able to identify and create targeted therapies to halt the
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Presentation Abstracts
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progression of Acute Myeloid Leukemia (AML). Myristoylated alanine-rich C-kinase substrate (MARCKS) controls processes like
mediation of the inflammatory response, secretion and exocytosis. Due to its connection to cancer growth and progression, MARCKS
is a focus for targeted therapies against AML. This study used human cell lines (MOLM 14 and THP-1), MTS tetrazolium cell
proliferation assays, and mouse models (NSG and Black-6) to determine the survival of AML cells when MARCKS is silenced. Overall,
the study identified a potential role for MARCKS in AML.

Diamond, Sarah
Kypriaka Chronika: Bronze Age II
This presentation examines Cyprus as a crossroads of civilizations, during the Bronze Age and explores how these cultural
interactions appear in the pottery. I will briefly cover the history of Cyprus during the Late Bronze Age (1600-1050 BCE) and the
ceramic vessels and figurines from that time period with examples from the exhibition Kypriaka Chronika at the Hallie Ford Museum.
I will describe White-Slip Ware and Base Ring Ware, two important types of pottery from this time period. I will illustrate the
creativity of Cypriote potters as well as the influence of other cultures on Cypriote ceramics during this time.

Dilley, Evan
Interpretations of Girard’s Mimetic Theory: Love in the Underground
This presentation explores the forms of love present in 'Notes from Underground' and attempts to devise a form of connection
which would allow the Underground Man to escape the momentum of his baseness. Kenotic love, selfless love, tyrannical love, and
non-self-oriented altruism are compared and contrasted as regards the Underground Man’s various faulty relationships.

Driscoll, Zora
The Transgressive Power of the Witch in Elizabeth Gaskell’s Lois the Witch and Maryse Condé’s I, Tituba, Black Witch of Salem
Witches have been conceived as figures of fear and disapproval throughout history and literature, but also serve as sites of female
resistance to dominant patriarchal social norms. By retelling the Salem witch trials from the perspective of an accused woman, Lois
the Witch and I, Tituba revise prevailing narratives surrounding the witch. This paper examines how the two texts engage with the
subversive Gothic genre and further challenge conceptions of history and category. Through foregrounding the figure of the witch,
both authors suggest the necessity of alternative modes of narrative to rupture patriarchal structures and to convey authentic
female experience.

Drum-Bento, Kiki
Looking For Support: Identifying Support for Undocumented and Second Generation Immigrant Youth within Public Education
The proposed project is to research types of support for 1.5 and 2nd generation immigrant youth within Woodburn High School.
Research methods include interviewing school administration, and utilizing information from public records. Findings will be used to
produce a research paper that will be sent to Woodburn School District.

Dueñas, Samantha
NRPS Population in Fiji Sponges and Sediments
Certain novel NRPS products make viable antibiotics in a world where antibiotic resistance is growing. This makes them valuable,
albeit non-ideal solutions to a growing issue. Samples were collected from sponges and sediment in Fijian seafloors. After amplifying
NRPS gene fragments, amplicons were sequenced using Oxford Nanopore’s MinIon. Sequences were annotated using Diamond
software, which matched sequences with database entries by homology. Sediment from site 7 yielded more NRPS sequences than
any other, while sponge samples from site 7 yielded less than any other. This study establishes Fijian seafloors’ sponge and sediment
as a source of novel antibiotic natural products.

Dunford, Nathan
Review and Analysis of Sports-Related Concussion Protocol: Return to Play Guidelines and Unity Across All Protocols
Erickson, Zahra

Non-Cis AFAB Not AFAD

The common claim with the trans masculine experience is that anyone who was assigned female at birth must reject all femininity in order to pass and to be a valid non-cis person. Growing up a transmasc person and having a lot of transmasc friends, I have found that it isn't actually the experience of a lot of AFAB non-cis people. In this thesis, I interviewed AFAB non-cis people about their connections to femininity in attempts to bring a different narrative about gender and expression to light.

Espinoza, Karen

Variation in nutrient transport affects survival phenotypes in *Caulobacter crescentus*

In this study, we examined the phenotypic variation in survival curves and the chemical sensitivity between *Caulobacter crescentus* strains with two TonB-dependent receptors (TBDR) polymorphisms. These strains exhibit different life history phenotypes when grown under identical conditions, indicating nutrient transport as an essential contributor for survival. We hypothesize that any differences in phenotypic survival between these strains may depend on their ability to manage metal ion homeostasis. Phenotype microarray analysis demonstrates that variation in metabolic capacities between strains occur in the presence of chelating agents; suggesting a difference in how these strains utilize metal ions as important micronutrients.

Fawcett, Carli

Evaluating field identification methods of Tegeticula moths using DNA barcoding

Joshua tree species and their yucca moth pollinators are a model system for studying coevolution. Past studies of the fitness impacts of cross species pollination identified moth species in the field using wing length. Here, I evaluate the accuracy of field identifications by measuring moth wing lengths and definitively identifying moth species using DNA barcoding. The results will determine the phenotypic variation within species, and whether moths can be reliably identified using gross morphology. Additionally, I lay the groundwork for experiments identifying the genome region associated with phenotypes using genome-wide association.

Forkin, Ilia

Dysphoric Scrying and Other Ritual Abjections for the TransHexual Transsexual

In an anti-pathological turn, this presentation explores the radical potential in grotesque reinterpretations of transsexuality. With an emphasis on occult embodiments, I examine how Julia Kristeva's theoretical framework of the abject can inform a new epistemology of transness which repositions dysphoria as a site of knowledge-making, further hypothesizing that the insight we glean from our uneasy affect can only be fully externalized via material insurrectionary disruption.

Ferguson, Landry

Dostoevsky and Disability

In this presentation I examine Dostoevsky's approach to disability and the crossover between disability literature and Dostoevsky's work "Idiot". I show how he was ahead of his time and avoids many tropes that modern disability studies finds problematic by analyzing the "Idiot" and putting it into conversation with modern disability studies criticism.

Feskanin, Alyssa

Can Ecolabels be an Effective Way to Incentivize Environmentally-Sustainable Consumer Purchasing Habits and Production Practices?

This presentation explores the validity of ecolabels as a means of signaling environmentally sustainable efforts made by firms. After a brief explanation of the eco-labeling process and introduction to consumer purchasing habits, I examine relevant literature through the lenses of both Neoclassical and Radical Political Economists. I find that while ecolabels are, indeed, effective in influencing consumer purchasing habits, there is no evidence that suggests firms have any incentive to change their production habits in order to become more sustainable and adopt ecolabels.
Fraser, Rosalind

Exploration of Populist Appeal: A Psychological Approach

Populism is a political framework that transcends the traditional liberal/conservative divide; it is associated with homogeneity and anti-elitist, anti-pluralistic sentiments. It has become increasingly relevant in recent years, due to its rapidly rising appeal in the United States and Europe. This presentation explores which underlying psychological factors might be associated with an individual’s affinity towards a populist framing of political issues. Specifically, the relationships between a newly-developed populism scale, Big Five personality traits, moral values, disgust sensitivity, life satisfaction, self-esteem, and Positive and Negative Affect (PANAS) in a sample of Willamette students are analyzed.

Fredenburg, Paige with Glass, Logan

Emoting Against the Grain: Sentiment Comparison of Twitter Movements and Their Relationships to the Public Sphere

The #BlackLivesMatter movement has emerged as a dominant counterculture in the political landscape through the use of Twitter. From this movement’s rapid growth following the killing of Trayvon Martin, the #BlueLivesMatter and #AllLivesMatter movements have sought to counter this counterpublic. Both #BlueLivesMatter and #AllLivesMatter contest the claims of racism within the criminal justice system while #BlueLivesMatter counters the narrative by claiming that law enforcement officers are being unfairly attacked. From these distinct narratives, three-thousand individual tweets were collected and the sentiments within were cataloged. Quantitative analysis reveals that all three movements utilize similar emotional patterns to present themselves as countercultures.

Fredenburg, Paige

Evaluation of an Outpatient Dual-Diagnosis Treatment Program for Individuals Being Released from Prison

This study examines the results of an outpatient treatment program serving men being released on parole who have both substance use and psychiatric disorders. Data from individuals entering the program between 2014 and 2015 were examined to determine the completion rate and rates of recidivism. While those enrolled in the program at any point had a statistically significant reduced risk of recidivism compared to the general population of released prisoners, the program had only a 14% rate of successful completion. The completion and recidivism rates of program participants suggest that enrollment in the program may have a positive effect but that remaining in treatment until completion is counter-intuitively linked with increased risk of recidivism.

Fredenburg, Paige

Gender Differences in the Relationship Between Peer Support and Depression in Adolescents

Adolescence is a time of growing dependence on peer support networks that can be conceptualized in terms of both support from a single best friend and more general peer support. By age 14, girls present with significantly higher rates of depression. Higher levels of social support and school belonging were more strongly related to lower depression scores in girls than boys. No significant interaction was found when modeling the impact of closeness with one’s best friend on depression, indicating that this protective factor is equally strong across genders. These results support previous research regarding gender differences in social relationships and depression while also challenging the notion that girls rely primarily on their best friend for support in a manner different than boys.

Gibson, Darian

Is the ketogenic diet an effective alternative to antiepileptic drugs in treating children with epilepsy?

Gibson, PJ

An Analysis of Fireballs from Willamette’s D6 AllSky Survey

As fireballs, more commonly known as shooting stars, fly through Earth’s atmosphere at breakneck speeds, they emit light that can be observed on our planet’s surface. Willamette’s D6 AllSky Survey is a camera system that probes the night’s sky for these events which can be further utilized for large-scale analysis such as determining flux rates. Flux rates depict the number of events that occur per unit time per unit area. Because one camera system can only observe <0.4% of Earth’s total sky area, amateur astronomers hold a significant role in fireball observations. Their observations provide a robust data sample size that can then be used to gain a deeper understanding of the flux rates and property distributions of fireballs. While complex multi-camera professional systems currently...
exist, there is need for more economic, accessible, and versatile systems. We will discuss the feasibility of our current observational setup and how it compares to more elaborate existing systems.

Gilman, Nathan
Physical therapy as a first intervention for musculoskeletal pathologies

Gordon, Alex
Basketball Gods: A Reading and Process
Basketball Gods is a riff on the premise of Neil Gaiman’s American Gods, a world in which the gods that we worship physically exist in the world that we also inhabit. And a turn of phrase often used in Basketball culture "the basketball gods are not pleased." The story follows a fictional Los Angeles pickup legend, known by his moniker, Baby Shaq, and his best friend Dennis Smith (Deezy) who are drafted to help save the game of basketball by two extremely talented female basketball players that turn out to be some of the gods of the game.

Glass, Logan
Beyond Intent: How the Russian IRA's Twitter Accounts Warn Us About Trolling
The Internet Research Agency's interference in American social media is often described as "trolling." However, none of the scholars and journalists who describe the IRA's activities as "trolling" justify that label. If the IRA is not trolling, this is a significant oversight in discussion and coverage of the interference; if they are, then trolling is a larger threat to public communication online than previously imagined. I sought to determine if the IRA's activities were trolling by analyzing the activity of IRA-run Twitter accounts on February 16th, 2017, as sampled from Drs. Linvill and Warren's three-million-tweet database, and comparing that activity to existing scholarly definitions of trolling.

Glass, Logan see Fredenburg, Paige
Emoting Against the Grain: Sentiment Comparison of Twitter Movements and Their Relationships to the Public Sphere

Gul, Yasmin
Early sport specialization is harmful

Habicht, Elizabeth
Your Pain Isn't Real: A History of Depersonalization in Gynecology
This presentation provides an analysis of differential experiences of depersonalization of black and white women throughout the history of gynecology, focusing on three time periods. The 1850s is characterized by development in the field at the expense of patients' humanity, particularly black women. The 1970s exhibited two phenomena: women's desire to understand their own bodies and have bodily autonomy, while black women experienced further experimentation without informed consent. Today, female patients' medical concerns are often ignored, with gynecological conditions taking years to diagnose. Medical school curricula should include historical perspective to promote greater understanding of the lack of trust between patients and doctors.

Hadfield, Jay
Spirit of Exile: Queer Identity and Romantic Tradition in Lermontov’s Demon
This presentation is on the Carson Research Grant project (of the same name) completed in the summer of 2018. Mikhail Lermontov's poem "Demon" is analyzed in regards to the Romantic tradition and queer theory, brought to a rather new domain by examining the original Russian text. The mythology and symbology of the demonic and divine, the binaries of good/evil, male/female, and straight/queer, and the weight of queer theory in Romantic literature are brought forward and examined.

Hagen, Donald
The Leap of Faith: A Christian Existentialist Analysis of Dostoevsky’s Depictions of Insanity and Religious Experience
Dostoevsky is one of the primary thinkers within the school of Christian Existentialism. Dostoevsky's depictions of illness in conjunction with transformative religious experience strike a parallel thought with one of the other great thinkers within Christian
Existentialism, in Soren Kierkegaard. Kierkegaard's leap of faith can be understood using Dostoevsky's depictions of illness and insanity.

Hakeman, Colin
Splashdown: A Reading from a Creative Writing Thesis
I have written the first half of a novel. This presentation will be a reading from this novel.

Hannigan-Luther, Shay
Inter-Rater Reliability in Three Rapid Stepping Tests Challenging Medial-Lateral Weight-Shifting Motion
The control of medial-lateral (ML) motion during standing balance and locomotion becomes increasingly difficult with aging. This study is part of a project to develop a clinically feasible test of rapid stepping performance that challenges the medial-lateral motion in older adults. Participants performed three tests of rapid stepping (RASTT, Modified-RASTT, and SIP) and two experimenters recorded the number of steps completed in 20 seconds in each test. The two experimenters’ ratings were highly correlated for all three tests, indicating high inter-rater reliability that compares favorably to common functional tests.

Hannigan-Luther, Shay
The effects of a ketogenic diet on endurance exercise performance
Heath Jonathan with Lee, Katie
Exploration of Anatomical Variations and Related Pathophysiology through Human Cadaveric Dissections
The Willamette University Anatomy Laboratory presents a phenomenal opportunity for laboratory teaching assistants to explore the human body through vivid human cadaveric dissections, increasing student's ability to identify anatomical structures, understand orientation and spatial relationships amongst these structures, and to understand the clinical correlates between structure and function. Through these dissections, laboratory assistants are exposed to variations in anatomy and pathologies which may be indicative to the cause of death of the body donors. Here we present the critical thinking, learning processes and evidence obtained over the year of student led dissections. We present several anatomical and pathological findings found in the Anatomy Laboratory through unique cadaveric dissections, that have allowed us to understand the revealed cause of death of the cadavers.

Hershman, Tova
Graph Literacy Training Program: A Pilot Study
This presentation explores graph literacy among college students. Graph literacy is a skill that is often lacking among students, which can impede academic success. In this study, I explore how the presence of context or lack thereof when reading a graph impacts graph literacy. This experiment piloted an online graphical literacy training program to improve graphical literacy skills. To this end, I draw conclusions regarding graphical literacy among college students and methods of improving this skill in the classroom.

Hershman, Tova with Hicks, Michelle
SOAR-ing to Success: Fostering an Equitable University via a Shared Student Resource Center
The Students Organizing for Access to Resources (SOAR) Center is a student-led resource hub at Willamette University in Salem, Oregon that strives to create equitable access to resources for students, as they navigate college and prepare for the professional workplace. It houses the Bearcat Pantry, the Clothing Share, and the First-Generation Book Drive. The SOAR Center foregrounds sustainability and inclusive methods. Presenters provide an overview of the SOAR Center’s evolution, addressing barriers to organizing and how they have either been mitigated or are currently being addressed, and detail goals for the hub’s expansion and collaboration with other university sectors.

Hiatt, Kyly
Measuring genomic divergence between Tegeticula synthetica and Tegeticula antithetica by RAD Sequencing
The obligate mutualism between Joshua trees (Yucca spp.) and yucca moths (T. synthetic, T. antithetica) is a model system for studies of coevolution. Here, I used a restriction site associated DNA sequencing protocol to genotype 48 individuals from multiple populations. DNA samples were sequenced on an Illumina HiSeq 4000 platform. Bioinformatic analyses were used to identify single
nucleotide polymorphisms in the moth genomes. These data may determine the amount of genetic variation across the genomes, identify genes that may be under selection, and establish a timeline of divergence between moth species.

Hicks, Michelle, see Hershman, Tova

SOAR-ing to Success: Fostering an Equitable University via a Shared Student Resource Center

Hinton, Sam

CRISPR dCas9 as a novel in vitro DNA binding domain for use in split protein biosensors

The information stored within DNA has long been of interest to geneticists, molecular biologists, and medical professionals. As a result, researchers have continually been searching for new, more efficient and rapid methods to screen an individual’s genes for specific DNA sequences pertaining to disease or dispositions to chronic illnesses. Present methods for specific DNA sequence detection relies on fully denaturing the double stranded DNA (dsDNA). Here we put forth a novel CRISPR dCas9 Sequence Enabled Reassembly (SEER) based split protein biosensor to screen dsDNA in its native state for specific target sequences. A biosensor of this kind is able locate a unique 20 base-pair sequence in the human genome allowing it to detect a single unique sequence within human genome. With applications extending past standard sequence recognition a biosensor of this kind has uses in medicine, biochemistry and molecular and cell biology.

Hougan, Alex, with Lau, Mark

Evaluating test retest reliability of the Rapid Alternating Stair Touch Test (RASTT)

This project continues previous work to develop a clinically-feasible test of rapid stepping performance that challenges medial-lateral motion in older adults. The ability to measure this aspect of function clinically may improve clinical assessments, since the control of medial-lateral (ML) motion during standing balance and locomotion becomes increasingly difficult with aging and a notable reduction in this aspect of function can be an early indicator of fall risk in older adults. Previous studies with this test of rapid stepping with weight-shifting motion has revealed some concern with test-retest repeatability. This analysis explores the stability of the stepping test scores over four testing sessions, and tracks whether any changes are mirrored by other tests of function that are commonly used to assess balance, strength, power, and walking function in older adults.

Hudd, Sam

The Effect of Artificial Intelligence on the Labor Market

Artificial Intelligence (AI) technologies have already been incorporated into several facets of the world economy

Technologies such as Apple’s Siri and Amazon’s Alexa are only brushing the surface of its capabilities, however. As the power of AI increases, the labor market is certain to experience significant shifts in the way it functions and is constructed. Using past technological revolutions, literature related to the subject, and economic theory, this thesis aims to predict the impact that AI and automation will have on the labor market while providing policy recommendations to ensure its benefits are maximized.

Ishihara, Christopher

USMCA and the Auto Industry: Will the Increased Domestic Content Requirements Benefit American Workers and Consumers?

Mexico and Canada have agreed to new rules which require 75% of a vehicle’s value to be manufactured in North America, up from 62.5%, and for 40% of each automobile to be made by workers earning at least $16 an hour to qualify for tariff-free importation into the US. The aim of these new requirements is to “bring back” jobs from lower-wage Mexico to the US and Canada. The potential outcomes of USMCA’s new auto policies on employment and consumer cost in the auto sector are examined in light of past experience with trade barriers, current data and economic theory.

Israel, Alex

Concussion Crisis: Potential Rules and Regulations in American Football to Reduce Brain Injuries

Jackson, Ashley

Understanding Environmental Issues Holistically
Jensen, Matt

Have a Heart
This presentation discusses the experience of queer individuals' existence in a marginalized body and the mind’s connection to our physical form. Not purely sweet nor purely bitter, our conscious experience of a mind and body co-inhabiting “the self” is hardly understandable or easy. The driving inquiry behind this project is to ask: in what ways do social judgments of appearance and bodies affect a person? Through conversations on bodily expectations and perceptions with ten other individuals who identify as queer, I have begun to explore notions of alienation, limitation, endurance, and overcoming.

Johnson, Emma

What Happened to Oregon? Since the Implementation of Temporary Assistance for Needy Families, What has Contributed to the Decline of the Reach of the Oregon Welfare Policy?
Temporary Assistance for Needy Families (TANF) is a program aimed at providing assistance to families while heads of households work to become self sufficient. The program was implemented in 1996 under the Personal Responsibility and Work Opportunity Reconciliation Act (PRWORA). TANF made welfare receipt highly conditional upon meeting specific requirements. TANF also brought sweeping changes to the structure of cash assistance, and continues to change in ways that have reduced the caseload and benefits over the last two decades. This project seeks to pinpoint the specific changes to Oregon TANF and analyze what overarching contributors have had an impact on the decline of Oregon cash assistance.

Johnston, Sam

Williamette's Divestment Movement: Unfinished Activism Then and Now
On a cold January day in 1988, around 250 students, faculty, and staff gathered on the campus of Williamette University to protest the University’s continued investment in corporations conducting business in South Africa. Frustrated by the lack of action by local and national governments, students turned to institutional divestment as a way to speak out against immoral actions abroad. This picture, however, presents a myriad of questions. How did students organize and come together as a unified body? How did university officials respond? Is divestment an effective strategy to pursue in the arena of international politics? Can students today utilize the divestment strategy to confront contemporary issues of institutional complicity and human rights?

Jolliff, Annie

Native Bee Floral Resource Use and Competition with Exotic Honey Bees (Apis mellifera) in Urban and Rural Salem, Oregon
Native bee populations aren’t well studied in Oregon, and may be in decline. Past research suggests that honey bees may negatively affect native bees. We surveyed six sites in urban and rural Salem, Oregon to identify which plants native and honey bees were using, and if bees were competing for floral resources. We observed native and honey bees on both native and exotic plants, but honeys mostly used abundant exotics like Rubus armeniacus. Our data suggest that many native bee species don’t prefer using native plants, so restoration efforts shouldn’t eliminate invasive floral species without supplying replacements for native bees.

Jones, Trent

Bouncing Oil Droplets - A Macroscopic Model of Single-Particle Diffraction
When an oil droplet comes in contact with a vibrating oil bath it can bounce on its surface for extended periods of time. Our project aims to further investigate whether or not bouncing droplet behavior is analogous to quantum systems. We will do this by experimentally modeling the quantum phenomenon of single-particle diffraction with bouncing oil droplets by sending them through single slit barriers of varying slit widths and measuring their angle of diffraction, i.e., how they are redirected. The purpose of this is to confirm whether or not there is a parameter space in which droplets create a diffraction pattern similar to subatomic particles and thus imitate this phenomenon.
Kerkhoff, Allie
Exploring Portfolio Choice: An Analysis of Gendered Investment Behavior
A number of different portfolio choice theories suggest that gender should not impact an individual’s investment decisions. However, recent literature and data suggest otherwise. The purpose of this project is to critically analyze recent studies on gendered investment behavior through the lens of three different portfolio choice theories. Based on this analysis, as well as data in the studies, I will then discuss how market volatility may impact these gender differences in investment. The results and conclusion will be revealed and discussed.

Koba, Kazu
Shin-Nisei: The “new” Japanese American experience
There are copious amounts of material on the pre-war Japanese American generations (first-generation "issei", second-generation "nisei", etc.) whose parents immigrated pre-World War II; terms created specifically for that initial mass immigration. However not much is written about the cohorts created to identify those raised post-World War II such as shin-nisei (new second-generation). This new group of individuals have taken on a new form of the infamous terms and yet raised in much different social climates creating a gap between the generational cohorts. This research paper will aim to examine various methods of categorizing Japanese American identity formation. The intention is to argue that the implications of these categorizations can overlap, be inadequate and/or outdated depending on the individual.

Koenig, Daniel
Recenter: A Self Care Mobile Application
The world is facing a mental health crisis—but many of the world’s governments have taken no action to combat it. Recenter works to combat this inaction by providing users with access to DBT-based self-care techniques, guided meditations, a sleep-cycle clock, a mood card, and more. In doing so, Recenter provides simple mental health care to anybody with a smartphone regardless of their access to sufficient mental health care otherwise.

Kohne, Evan
7 Children- A study of Politics and Theater
This presentation is of a study on the role theater can play in the dialogue around issues of a political nature. Using the plays 7 Jewish Children and 7 Palestinian Children, I explored how the audience could be primed to receive a play’s message that they may have been predisposed against before the study. I will also discuss some of the difficulties in presenting controversial material on stage and some of the methods that can be deployed to avoid purely political push back. This presentation will involve topics including performance, rhetoric, and sociological theory.

Kong, Rachel
Willamette-Special Olympics Sports Camps for Individuals with Special Needs

Kraabel, Aubrey
A Better 2030: Public Health Economics and Rabies Elimination Efforts
Recent studies estimate as many as 60,000 deaths per year from the rabies disease, with most of these occurring among children. The majority of rabies infections occur through dog bites. Despite the ease with which it can be prevented, rabies is still very pervasive in today’s world, especially in Africa and Asia. This thesis examines three central questions related to this deadly disease. First, what are the economic effects of the rabies disease? Second, why aren’t developing countries able to mobilize the resources to vaccinate for and eliminate rabies? Finally, how can regulations and updated methods of vaccination in developing countries, along with international intervention, adequately support the elimination of dog-mediated human rabies worldwide by 2030?

Kushinka, J.
"There’s a Comfort in Failure": Paradoxical Potentials of Non-binary Experience(s)
Queer failure theory, as discussed by Jack Halberstam and other queer theorists, presents a new framework for conceptualizing
queer existence in opposition to mainstream pushes towards "homonormativity". By embracing the negative ascription society places on queer identities, queer failure theory posits that queer people can forge new methods of community organizing and radical resistance to heteronormativity and the gender binary. I hypothesize that non-binary individuals particularly can resonate with the queer failure framework given the "failure" to conform to the gender binary, even as trans people. Through six oral history interviews with non-binary narrators, this study explores the paradoxical potentials of embracing failure as a praxis of resistance and survival in a cisnormative world.

Kwako, William

Looking for the BAO Signal in the 2MRS Using the Wavelet Transformation
We analyze the distribution of galaxies in the universe to look for spherical shells of excess galaxies, evidence of baryon acoustic oscillations (BAOs) in the early universe. We construct a mathematical object (a wavelet) to search for the BAO signal, applying it to a reconstruction of the local density field. We find that the radius and thickness of the wavelet that gives the strongest overlap with the density field matches theoretical predictions of the BAO signal. Searching for positions in space that produce a strong overlap with the wavelet, we locate several potential positions of BAOs in the local universe.

LaChasse, Katherine

Finite-Amplitude Perturbation Thresholds for Subcritical Transition in Taylor-Couette Flow
Turbulence, a flow regime characterized by complexity and irregular fluctuations, is the preferred state for most fluid flows and important in many applications. The underlying mechanism driving the transition to turbulence is not understood. Neither are subcritical transitions, which require finite perturbations to rapidly transition from smooth, laminar flow to turbulent flow. In my research, I looked at Taylor-Couette flow, the flow in a gap between two cylinders that can rotate independently. I automated the process of recording when a perturbation causes laminar flows to become turbulent, and analyzed the combination of angular velocities and perturbation amplitudes that triggered turbulence.

Larson, Elisabeth

Pandemics as a Historical Force in the Landscape of Willamette University
Disease is an overlooked force of change in historical events, but can be significant in understanding modern landscapes. This is a retrospective study analyzing the influence of pandemics from 1820 to 1920 in the Willamette Valley with special attention to the place that is currently occupied by Willamette University. During the 18th and 19th centuries the historic populations of Native Willamette Valley people were devastated by multiple local pandemics introduced with the arrival of European explorers and colonists. These deadly European-born diseases reduced populations from many thousands to only hundreds. The vacancies of productive land in the Willamette Valley facilitated the recolonization of the area by primarily white European immigrants. The primarily white colonists and their descendants were free of major pandemics in the Willamette Valley until the H1N1 influenza virus swept the world in 1918 on the heels of WWI. This pandemic resulted in greater worldwide population devastation than the losses of WWI and WWII combined. As Willamette University donors, faculty and students perished, disease once more shaped the population landscape of this valley and the culture of its inhabitants.

Lau, Mark, see Hougan, Alex

Evaluating test retest reliability of the Rapid Alternating Stair Touch Test (RASTT)

Lawson, Peter

Omnes Requiescimus: Requiem for Chorus and Chamber Orchestra
Death is one of the few experiences which transcends cultures and societies as a true human universal. It is this notion of universality which forms the basis of this Requiem. Presenting his senior composition project, the composer will discuss the process by which the piece was formulated, the extra-musical and academic origins and inspirations of the work, and the various ways those aspects are manifested in the music. The presentation will be followed by the playing of a short recorded excerpt of the work’s debut performance which occurred on March 17th.
Levy, Evan
Use of an interactive website to increase home exercise compliance in pediatric physical therapy

Lee, Katie see Heath, Jonathan
Exploration of Anatomical Variations and Related Pathophysiology through Human Cadaveric Dissections

Lim, Ashley
Monster Mashing Metaphors: An Analysis of Monstrosity in "The Shape of Water"
This presentation will analyze the role of monstrosity in Guillermo del Toro’s film "The Shape of Water," as well as the fan culture that surrounds it. First, I explore how "The Shape of Water" offers a critical reading of monsters that subverts traditional narratives of metaphorical monstrosity and reimagines the role of the monster. I then go on to highlight how the circulation of fan works on spaces like Tumblr contributes to the reframing of the monster genre, positing del Toro’s monster as an empowering metaphor for female agency and disability activism.

Lockwood, Alex
A Case Study in Video Game Development in the Unreal Engine
This presentation demonstrates the process of developing a video game using the Unreal Engine. It covers the concepts specific to developing a game that is intended to be played in an online multiplayer setting. Unlike most computer-science related projects, this one required no traditional programming. Therefore, this presentation will also describe the Unreal Engine’s blueprint system as a visual alternative to traditional text-based programming in the context of game development. The presentation features a demonstration of a functional online multiplayer video game powered by Steam, a popular online game distribution platform.

Logan, Cassie
Characterization of Myosin VI using In Vitro Motility
Myosin VI is a motor protein that transports packages within cells along roadways called actin. In some cases, multiple motors work together to move a single package, affecting how quickly they work. The speeds and kinetic rates of these motors were found via in vitro motility assay. Flow cells were created, within which was an environment where smooth actin gliding could be observed and recorded. This motion between actin and myosin VI was analyzed to extract relative velocities. The system was then modeled, allowing for the finding of the kinetic rates of the actomyosin reaction.

Louangrath, Jonathan
Access to Higher Education: Comparative Analysis of Student Experiences in Chile, Nepal, and Jordan
This paper explores access to education in Chile, Nepal, and Jordan. The research utilizes 11 interviews with university students, educators, and other professionals to contextualize access to higher education internationally. Findings include: (1) the importance of socioeconomics for accessing higher education, and (2) the marginalization of certain identities in accessing academic spaces. Within the first theme, socioeconomics, are two subthemes. First, this research outlines the effects of neoliberal economic reform on national education systems and the effects these changes have upon students. Second, this study sheds light on the overwhelming cost of education for students accessing adequate schooling.

Louangrath, Jonathan
H-1B Visa Use for the Filipino Nursing and Indian Information Technology (IT) Industries: Coloniality and Diaspora in Skilled Migratory Employment
This thesis focuses on the H-1B visa, a temporary worker visa that employs skilled foreign laborers from countries outside the U.S. By targeting the Philippines and India as significant source states for trained workers, this research hones in on Filipino nurses and Indian information technology (IT) workers whose transnationalism exemplifies the “dual intent” nature of the H-1B visa: a track to American citizenship. This project uses a combination of data from the 2003 National Immigrant Survey (NIS), the 2010 U.S. Census, and qualitative ephemera to analyze Asian migratory work through scholarship in postcolonial theory, diaspora studies, and human capital theory.
Louangrath, Jonathan
Reified Social Attitudes Towards Southeast Asian Refugees in Southern California, 1970s-80s
This paper analyzes dominant discursive attitudes towards Southeast Asian refugees in Southern California through archival data examined at the University of California at Irvine's Southeast Asian Archive (SEAA). The selection of data at the archive included newspaper clippings, governmental documents, and other various ephemera. By centering refugee studies and racial formation theory in this essay, I overview the mechanisms through which the mass exodus of refugees from Southeast Asia impacted the social and political fabric of cities in Southern California. This paper examines the rhetorical, social, and political ideologies and processes through which American citizens viewed the mass-scale refugee migration.

Luis, Katie
A metagenomic approach to the analysis of microbial communities present in vertical transect water samples from the Tonga Trench
The ocean, the largest portion of the Earth's biosphere, is an environment in which a vast diversity of microorganisms thrive. The deep ocean is among the hardest environments to study because of the high pressure, low temperature, and complete absence of light. In this study, water column samples were collected from the Tonga Trench ranging 400-9000 meters in depth. Using metagenomic computation to identify microorganisms and their metabolic capabilities, it is now possible to extrapolate how organisms survive within this unique environment. This experiment is an unprecedented opportunity to explore microorganism community composition, and their role within the biosphere.

Lyon, Greth
Congratulations, it's a Baby! Making Space in Imagined Futures for Intersex and Non-Binary Realities
This thesis is a feminist project that looks into the relationship between the social construction of binary gender and societal discomfort with gender ambiguity. It will examine the reasons why people with authority in the lives of children with variations of sex development feel the need to enforce binary sex and gender upon these children, whose bodies do not align with it. More specifically, this thesis seeks to understand why doctors and the parents of intersex babies make choices that pathologize their child's sex and gender and go so far as to surgically alter their newborn's genitals in order to assign them to one or the other binary gender.

Mackey, Akerah
Post-Racialism as Utopia
This research treats the Post-Racial theory as a type of political utopia and seeks to focus on the ways political imagination can create and sustain these views in America. Political Utopian ideals have begun to become a false reality for many Americans. The creation of these types of political utopias is a product of the political imagination. Political imagination is the faculty of the brain that is tasked with the action of forming new ideas, images, or concepts related specifically to the discourse of politics. These creations are responsible for the production of democracy, socialism, and many other political concepts; however, they are also responsible for creating and sustaining these false realities. The consequences of these realities are detrimental to democracy and race relations in America.

Mackey, Akerah
The Violent God: James Baldwin's Critique of Christianity
This research examines author and activist James Baldwin as a case-study for understanding the inner-workings of the black church and its critiques. This research focuses on Baldwin due to his unique experience within the black church, but more importantly his critiques. During his teenage years, Baldwin became a youth minister, and quickly became dissatisfied with ministry, considering it hypocritical and discriminatory and, ultimately, left the church. Baldwin accuses Christianity of reinforcing slavery through religious justification and reinforcing the oppression of black people therefore. This research analyzes those claims and delves deeper into the idea that the black evangelical churches are a system that operated as a violent justification for self-hatred, racial-bigotry, and physical violence.
Manfull, Quinlyn

Alaska’s Permanent Fund: Testing Resource Curse Hypothesis, Dependency, and Social and Political Consequences

Oil is the exemplar of the modern global economy, linking issues of trade, finance, development, and national security, but there is substantial evidence to suggest that countries with natural resource wealth suffer from economic underperformance. This is referred to as the “resource curse.” The Alaskan Model - referring to a savings account for wealth from a natural resource and an annual payout to residents of a small portion of that account - has been cited as a valuable tool other countries can use to escape the resource curse. This paper looks at both the characteristics of the Permanent Fund and Permanent Fund Dividend that made it successful, and the ways in which it ultimately isn't successful.

Marquez, Juan

Period doubling in glow discharge tubes

A glow discharge plasma tube and capacitive probes are constructed to measure period doubling and determine why the plasma undergoes period doubling. Parametric decay and routes to chaos are examined as possible driving cause for spontaneous period doubling. However, diagnostic tests are conducted in the form of measuring the current-voltage curve and measuring Paschen's Curve to determine if our setup worked properly.

Marshall, Cheyenne

[REDACTED]: A Reading from a Creative Writing Thesis

I am writing a epistolary novel in a collage style format which illustrates a fictional presentation of the Northern California small town. Though fictional in nature, I am heavily inspired by my life growing up in Northern California and hope to, throughout my narrative, highlight the troubling nature of these types of small towns in the modern day. This includes the exterior pressure of a progressive society as well as the insidiousness of the personalities within.

McCombs, Dylan

Skate and Rebuild

Grief. Although no person ever completely heals from the devastation encompassed in this word, we eventually use our experiences with loss to learn lifelong lessons. In this solo performance I take a personal journey through a grieving experience I faced at a young age. While some losses are permanent, perhaps we can talk about the experiences we face. Maybe that can lead us to a resolution.

Montague, Michael

The Economics of Exercise

The decisions individuals make in regards to the trade-offs they accept between exercise and leisure time has led to a significant decrease in life expectancy and overall health for Americans compared to those in other developed ("first-world") countries. My thesis explores the economics of exercise, from the neoclassical and behavioral schools of thought. These theories are used to investigate why individuals choose to pursue other activities instead of exercise in their daily lives. Through the application of the selected theories, I am able to offer suggestions as to what can be done to remedy destructive exercise behaviors.

Nagata, Michelle

Newly identified genes play a role in oxidative stress defense in Caulobacter crescentus

In prokaryotes, oxidative stress due to excess accumulation of reactive oxygen species (ROS) causes DNA damage and cell death. Though the mechanism for oxidative stress defense is not fully understood, single-nucleotide polymorphisms that alter cell survival in the presence of ROS present a starting point for elucidating the pathway. We have identified a conserved gene of unknown function in Caulobacter crescentus that results in marked phenotypic changes in response to ROS. In this study, we developed a method for measuring differences between C. crescentus strains in order to annotate newly identified genes with unknown functions involved in managing oxidative stress.
Netzer, Owen
Liminal State [Working Title]
Liminal State is an indie rock album focusing closely on the lyrical element of music. The album focuses on the occupation of in-between states physically, emotionally, temporally, and more in an attempt to explore what these in-between states mean and to invite listeners into the experiences of the songwriter. Portrayed from a personal perspective, the songs both individually as a whole deal with themes of loss and being lost, growth, and the development of one’s identity. For this presentation, a short selection of songs will be performed.

Noble, Erica
The Influence of the Lost Cause on Modern Right-wing Conservatism
This research seeks to understand how the narrative of the Lost Cause has influenced modern right-wing conservatism. My research demonstrates that it has been utilized by the Tea Party to influence the electorate, particularly white Americans. I will establish the history and the romanticization of the Lost Cause, and explore the ways that the Tea Party’s calls for a restoration of traditional values actually code as calls for a restoration of white supremacy like the Lost Cause.

Noren, Mia
Norwegian Exceptionalism: Can Oregon Model a Less Punitive Penal System?

O’Brien, Kieran
Craters
This presentation will be a partial reading of my creative writing thesis project. Intended as the foundation of a larger novel, "Craters" tells the story of people trapped on an alien world long since isolated from Earth’s influence. The protagonist of the narrative, Hosea, is dropped into a crisis of faith when he is exiled from his small community. As he embarks on a journey to find his own truth, Hosea simultaneously undergoes a cycle of loss, reconciliation, and revelation.

Ochoa, Jose
Web Development for First-Generation Students
The college application process can be long and strenuous for those in high school. It can be especially daunting to first-generation and underrepresented minority students. However, using web development tools, it is possible to help provide these students with the information they need to apply to college. Moreover, a website can be a perfect medium to consolidate the required information for the college application process. The difficulty lies in finding a website that caters to first-generation students. This presentation focuses on the process of developing such a website from scratch. I explore how HTML, CSS, JavaScript, and Bootstrap provide the means to create a website that looks visually appealing, has a cohesive design, presents a vast amount of information, and focuses on both mobile and desktop clients.

Panetta, Tess
Hamburgers and Heroes: What Gendered Media means to You and Me
In this project, I explore the interplay of consumer culture and media production surrounding women in three ways. The first by analyzing two advertisements featuring women as main subjects using Erving Goffman's advertising analysis practices. The second by contextualizing the cancellation and subsequent return of the cartoon series Young Justice and the influence of toy sales on television media. The third is an investigation into the creation processes of the upcoming Marvel solo project for the heroine Black Widow. I seek to understand how such characterizations of sex, race, gender, and sexuality influence viewers, and learn the ways that feminist consumers of media can in turn influence the presentations of women in media.

Patricio, Joelle
This presentation examines indigenous rights in the four states (Canada, Australia, New Zealand, United States aka CANZUS) that originally opposed the adoption of the Declaration on the Rights of Indigenous Peoples (UNDRIP) by the General Assembly of the
United Nations. I will compare treaty-making in each of these states with indigenous groups before and after the adoption of the Declaration to analyze whether there were major changes in their respective treaty-making procedures.

Peery, Jill
Examining the Rate of Expansion of the Universe Using the Galaxy Peculiar Velocity Covariance Matrix
The standard cosmological model describes how the universe evolved from the big bang, to its present state. A crucial part of this evolution is due to the expansion of the universe, and the motion of galaxies, their peculiar velocities, carry vital information about this rate of expansion. We analyze the statistical properties of peculiar velocities and test the standard cosmological model through examining the controversial Hubble constant. The Hubble constant is key in unlocking the secrets of the universe, and we hope to corroborate the results of previous studies through our discoveries.

Peery, Sarah
A More Direct Method for Calculating the Cosmic Velocity Correlation function from Peculiar Velocity Data
We study a novel method for reconstructing the 3D velocity correlation function for the velocities of galaxies in our universe, based on a two-point correlation method proposed by Nick Kaiser in the 1980s. The Kaiser method estimates the three-dimensional velocity correlation functions directly from radial velocities which we can find through redshift, allowing for a more accurate comparison with the standard model. After testing the method using mock catalogs drawn from simulations, we apply it to the CosmicFlows-3, a compendium of over 10,000 measured peculiar velocities, and the Pantheon supernova catalog. To use the Pantheon we first devise a method of estimating velocities through a likelihood analysis using the theoretical distance modulus as a function of redshift proposed by Scolnic.

Phillips, Kara
Hook grip usage is increasing for the deadlift event among elite level powerlifters

Pine, Gabby
Yayoi Kusama and the Narrative of Mental Illness in her Work
This presentation focuses on the life and works of Japanese contemporary artist, Yayoi Kusama. I will mainly discuss her infinity paintings and "Happenings"/performance art pieces followed through with and created in the United States during the 1950s-1970s. I intend to critique the narrative of mental illness in Kusama's works and biography through the analysis of scholars who have found discrepancies in her claims surrounding her illness. Following this, I will discuss other possible sources of inspiration behind her works that are not necessarily connected to illness, such as the political/social environments of both post World War II Japan and United States. I aim the discussion to provide an opportunity to better categorize her artworks while simultaneously clarifying her involvement with psychedelic art and the American hippie movement.

Piper, Holly
Kypriaka Chronika: Bronze Age I
This presentation discusses Cyprus, during the Bronze Age, as a crossroads of civilization and the way that these cultural influences appear in pottery. The presentation will briefly cover the history of Cyprus during the Early Bronze Age (2500-1900 BCE) and examine the ceramics of that time period using the pieces displayed in the Kypriaka Chronika exhibition at the Hallie Ford Museum as examples. It will describe two important types of pottery, namely the Red-Polished and Black-Polished Ware, and their relation to migration. The presentation will explore the creativity of Cypriote potters in the forms and features of their vessels.

Pockell-Wilson, Claire with Roadarmel, Natalie
Sparking Change: Bridging the Sustainability Communication(s) Gap
Communication with different audiences about sustainability topics poses several challenges. Specific facets of the term “sustainability” often make communication confusing and fractured. After working with Willamette’s Sustainability Institute, Green Fund, and other environmental, social justice, and equity related groups on campus, the absence of a unified organizing platform limited collaborative possibilities for substantial change. To address this concern, a group of students applied for a grant to create
coalitional newsletter and calendar to streamline and synergize communication regarding social justice, equity, wellness, and environmental issues at Willamette University while providing leadership opportunities, coalition building, and fostering communication between groups and students. The Spark! - an effort for students, by students - accomplishes these goals through a tri-weekly newsletter, coalitional meetings, and a joint calendar, which provides information for upcoming events and meetings. The newsletter and corresponding meetings provide a needed dialogue between students involved in organizations related to sustainability (in all its facets) and students who want to participate at Willamette University and in the surrounding Salem community.

Polkinghorn, Laura
From Home to House to Home: A Processual Analysis of the Journey from the Streets to a House Among Individuals Experiencing Homelessness in Salem, OR
Homelessness in Salem and on a national scale is reaching unprecedented levels, and these numbers are only increasing. Through an immersive investigation, this researcher conducted a cultural ethnography of adults experiencing homelessness via a research internship at the Homeless Outreach and Advocacy Project (HOAP). Findings from this study focus on two critical areas of the homeless experience: 1) how feelings of home and the physical location of a house complicate one’s constructed street identity; and 2) how individuals have relatively low levels of agency and power to affect the process by which they obtain transitional/affordable housing.

Polkinghorn, Laura
Analysis of Dopamine Transporter 1 Alleles in Determining Risk-Reward Evaluations Among Individuals From the Add Health Study
Genes and their differential expression among individuals play significant roles in adolescent development and behavioral learning. In particular, genes associated with dopamine transport and regulation are thought to influence the decision-making and risk-reward evaluations that individuals make on a daily basis. In an extension of this understanding from the current literature, this research attempts to answer the following question: In the context of a diversity of social upbringings, do particular alleles for dopamine transporter 1 (DAT1) significantly influence risk-taking behaviors of individuals over the course of their life?

Procino, Jake
Law Regarding Homelessness Throughout the History of the United States, with a Los Angeles Case Study
This presentation analyzes the history of law regarding homelessness in the United States, examining some of the values and common themes that have persisted throughout history. I explore early colonial America in the punishment and support of the homeless and how the law has changed over time. I use Los Angeles as a case study to look at how broad historical values and patterns have influenced specific local law regarding the homeless population of Los Angeles. Through broad and local historical lenses, I support a consensus among modern historians that views support and compassion as significantly lacking in American law.

Proctor, Amy
The Petersburg Myth in Contemporary Russian Fiction
This project explores how the 'Petersburg Text' in Russian literature has influenced two best-selling novels of the early twentieth century: Glukhovsky's Metro 2033 and Petrosyan's The Gray House. It explores ways in which the tradition of writing Petersburg as an "extradimensional space" are adapted to new spaces by contemporary authors as a response to the chaotic transformations of Russia in the 1990s.

Ramundo, Giulia with Sancataldo, Serena
BREATHING OBJECTS The Dialogue between Artifacts and Artworks at the Hallie Ford Museum
The title of this presentation pays tribute to two pioneering studies focused on the recognition of objects as signifiers of collective identities “from which a shape of time emerges,” namely, George Kubler’s The Shape of Time (1962) and Cesare Brandi’s Theory of Restoration (1963). This presentation intends to analyze the problematic case of the Hallie Ford Museum in the displaying of Native American artifacts – i.e., a woman’s cap – suggesting, however, the reversible status of this piece as a breathing object. This tool is
Rivas, Ivy  
**Happiness Economics: The Relationship of Income and Subjective Well-being**  
The field of happiness economics traditionally studies the relationship between income and happiness, or subjective well-being over various subjects and populations, including individual, national, and international. This project seeks to understand this complex and dynamic relationship through exploring both Neoclassical and Radical Political Economy theory, as well as empirical studies and scholarly journals. The main piece I will focus on, written by Jebb et. al, claims to have found an optimal salary that maximizes individual well-being or happiness. Jebb et al.’s work is unique as they claim to have found evidence of satiation or turning points in ones quest to maximize happiness or well-being in addition to their claim that an optimal salary can be calculated, varying by region. Finally, I analyze their findings through the two contrasting theoretical lenses previously mentioned, in order to come to concrete conclusions about this multifaceted and dynamic relationship between income and happiness.

Rizzo, Zoey  
**Daoist Medicine: The Intersectionality of Religion and Medical Practice for First-Wave Chinese immigrants**  
Traditional Chinese Medicine (TCM), originally brought to the United States by Chinese immigrants, has been developed over the course of thousands of years; with many practices having ideological origins in the spiritual. This paper seeks to highlight the syncretic nature between religion and medicine, as well as the way in which Chinese immigrants of Salem and John Day, Oregon, blurred the lines between faith and healing. After a brief summary of the social and political climate regarding early Chinese immigration, I will introduce medical notions and the ways in which the TCM medical system has integrated religious concepts of the human body and the divine with lifesaving medicine.

Roadarmel, Natalie, see Pockell-Wilson, Claire  
**Sparking Change: Bridging the Sustainability Communication(s) Gap**

Sakai, Joshua  
**Analysis of taxonomy and function of Tonga Trench microbes using metagenomic analysis**  
The Tonga Trench, located in the South Pacific, is the second deepest trench in the world, with a maximum depth of 10,882m. To our knowledge the samples taken at 400m, 3000m, 5000m, 9000m, and sediment are the deepest metagenomes analyzed to date, allowing for an unprecedented look of an understudied section of our planet. Using Next-Gen sequencing and metagenomics analysis organisms have been identified to the best of our ability through taxonomic and functional metabolic analysis. This has allowed for a more detailed assessment of the role specific Archaea and Bacteria classes across the Tonga Trench water column and sediments.

Sancataldo, Serena, see Ramundo, Giulia  
**BREATHING OBJECTS The Dialogue between Artifacts and Artworks at the Hallie Ford Museum.**

Self, Emily  
**A Discourse on the Labor Market of the Gig Economy**  
The prevalence of digital platform-based markets and the gig economy has increased over the past decade. Workers participating in the gig economy are drawn to its flexibility. However, the classification of gig workers as contractors rather than employees, and the platform as just a facilitator of an exchange rather than an employer, leaves the gig worker unprotected by labor laws and the gig platform free from legal responsibility to provide benefits and job security. How does the nature of gig work affect the workforce, and how would policy directed at the gig economy change the nature of gig work?
Sherman, Max
**Face Cards**
This project is a second showing of my thesis. Face cards is a solo performance that examines my relationship with theatre and magic as related forms of performance, as well as the concept of truth in performance. This takes the form of a solo performance magic show with heavy audience participation.

Shimazu, Lyndsey
**Trait Mindfulness as a Mediator Linking Adult Attachment Orientation to Well-Being in Emerging Adults**
Attachment orientation has been consistently linked to well-being and mental health, with some arguing that mindfulness may facilitate this relationship. 221 college students completed measurements of attachment, mindfulness, well-being, and mental health outcomes in order to determine whether total mindfulness (and any of its facets) might mediate these relationships. Results suggested that trait mindfulness, particularly the facets of Acting with Awareness and Non-judgment, mediated the relationships between attachment, mental health, and well-being. These findings have broader implications for mental health interventions, suggesting that insecurely attached individuals in particular may benefit from mindfulness interventions to improve well-being.

Spradlin, Paige
**Tweaking Drug Policy: An Analysis of the Diverging Socio-political Responses to the "Crack" and Opioid Epidemics**
The U.S. has undergone two major drug abuse epidemics in the past forty years: 'crack' in the 1980s and opioids in the 2010s. The Federal Government responded in markedly different ways--overtly punitively to the former but with relatively remedial policies for the latter--thus prompting the question, why was Federal drug policy tweaked? This project seeks to explain the change in federal legislative approaches to drug abuse and addiction. From the scholarly literature, five competing explanations are identified: 1) advancements in brain science, 2) "decarceration," or the growing awareness of the social costs of prison, 3) policing as a function of relative drug use visibility, 4) the mitigation of associated crime and violence, and 5) the social identities of drug users and policymakers. A rhetorical analysis of the semantic devices used most prominently in Presidential and Congressional drug policy statements associated with the Anti-Drug Abuse Act of 1986, the Violent Crime Control and Law Enforcement Act of 1994, and the Comprehensive Addiction Recovery Act of 2016 will be used to determine how well each of the competing approaches explains the change in drug policy rationale.

Spencer, Dante
**Implementation and Improvement of Physical Education Programs in Public Elementary Schools**

Stensaas, Jo
**Finding the Force Dependence of Myosin VI inside Retinal Pigment Epithelial Cells**
Motor proteins maintain an organized state in cells. My research on motor protein myosin VI, found in retinal pigment epithelial cells, studied how myosin responded to forces inside of a cell. Previous studies on myosin have been conducted in purified environments, where the conditions affecting myosin are controlled. With a highly focused laser, I used the momentum of light to apply forces to beads ingested in the cells. In my research, I explored how myosin trafficking was affected by forces inside the cell, and how different properties of the cytoplasm affected the movement of ingested objects.

Steuer, Anya
**Scenic Painting Intensive**

Stirton, KayLyn
**Is Invisalign the Clear Future of Orthodontics?**
Uphoff, Adrian
Alabama, Arkansas, Do I Stay With Ma and Pa?: An Analysis of Decreasing Racial Disproportionality in the Foster Care Systems of Alabama, Arkansas, and Mississippi from 2005-2017
With black children occupying only 14% of the US child population but 23% of children in foster care, blacks are overwhelmingly exposed to the adverse health, penal, and socioeconomic risks that foster youth face. While policy solutions must be evidence-based, 50 years of literature on race in foster care has produced no consensus as to which factors drive this racial disproportionality. Surprisingly, the three most racially proportionate foster care systems are in Alabama, Arkansas, and Mississippi. This thesis analyzes trends in foster care racial disproportionality against trends in variables suggested to cause said disproportionality in these states from 2005-2017.

Wang, Annie
Investigating the Large-Scale Structure of the Universe through the Correlation Function and Power Spectrum and Voids
A density field, providing the matter density at positions in a regular three-dimensional grid, has recently been created from a catalog of galaxy clusters in the 2MASS redshift survey. This provides us with the opportunity to characterize the large-scale structure of the local volume by applying mathematical tools directly to this density field rather than using galaxy counts. We first calculate the density correlation function to find Baryon Acoustic Oscillation signal. In short, the Baryon Acoustic Oscillations are density fluctuations of the baryonic matter, which is imprinted on the correlation function. Our results show a significant bump at $r = 105h^{-1}$ Mpc corresponding to the Baryon Acoustic Oscillation signal, previously seen only in data from much deeper surveys. Secondly, we apply the Fourier transform to the density field giving us an estimate of the power spectrum which we later compare with the theoretical predictions. Finally, we apply a void finding algorithm to the density field in order to characterize the void distribution.

Weaver, Marcus
Determining if Myosin VI Dimers are Regulated by Intramolecular Strain
Myosin VI is a molecular motor protein that carries its cargo through cells. A myosin VI dimer contains two myosin VI molecules which can move in a coordinated fashion with a hand-over-hand motion that resembles walking. This walking motion is interesting because the two myosin VI molecules are identical yet behave differently. The dimer can determine which molecule needs to be moved in order to correctly walk. We analyzed myosin VI walking data to determine if this coordinated motion results from communication due to forces between the two molecules.

Webster, Morgan
Investigation of interplay between Serotonin Transporter alleles and emotional wellbeing in subjects from the Add Health Survey
Serotonin acts as a neurotransmitter that relays signals from one area of the brain to another and plays an important role in appetite, digestion, bone health, sex, and sleep. Its main function however is regulating mood. Genes associated with serotonin transport have also been linked to influence emotions in a way that could lead to depression. While there has been research on the effects of low serotonin levels on mood, there is little data on if particular alleles could be the cause of these depressive symptoms. Using the Add Health Study, I have analyzed the Serotonin Transporter allele A and B in order to understand how serotonin transporter alleles influence depressive symptoms and ultimately lead to depression.

Wiggins, Kaitlyn
Educational Inequality in the Age of School Choice
Every child has the right to an education. However, the means of receiving this education is debatable, as many argue that traditional public schools are marred by their racist and classist histories. In the late 1900s neoliberalism paved the way for school choice, promoting decreased regulation and breaking the link between residence and school district. Looking at housing market segregation, Neoclassical arguments of choice and their limitations, and evidence from charter school studies, this study seeks to understand whether charter schools break down the barriers to education reinforced by traditional public schools, or whether they perpetuate racial and socioeconomic stratification.
Williams, Marleigh

I'll Show You Mine, If You Show Me Yours: The Reproduction and Maintenance of White Supremacy and Toxic Masculinity in White Greek-letter Organizations

This project examines and provides an understanding of the embodiment and function of the masculine social norms reinforced within hierarchical institutions of considerable power, specifically focusing on historically white, social fraternities in the United States. I strategically utilize the film Goat (2016) as a case study of the reproduction of white supremacy, toxic masculinity, and bodily ownership under the guise of brotherhood. I reveal the panoptic nature of fraternities through disciplinary control techniques to dominate members, including internalized problematization and correction of thoughts and actions via self-surveillance.

Williams, Rachelle

Certifying Willamette Campus as a Wildlife Habitat

This study works to document and plan improvements in wildlife habitat on the Willamette University campus with the aim of becoming certified by a variety of external reviewers of wildlife habitat (e.g. National Wildlife Federation, Audubon Society Backyard Certification Program, North American Butterfly Association Habitat Program). College campuses often incorporate green spaces that may serve as critical habitats to wildlife. The wildlife on campuses foster special academic opportunities and promote people connecting with nature. Urban ecosystems have many distinct microhabitats that can support diverse mixes of native, ornamental, and invasive species which merit investigation in our increasingly urbanizing world.

Wilson, Elle

Divine Punishment: The Religious Roots of the American Penal System

The development of a cohesive American Penal system can be rooted in a religious tradition surrounding the concept of punishment. Through the appropriation of divine authority, the State engages in careful practices of subject making. Cells, observation, and labor are theologically-based, even though these foundations are no longer needed to justify their functions. Defining the internal logic of these institutions as a religious phenomenon must precede any attempt to imagine alternatives.

Yeakle, Paige

Hippotherapy: Evidence Review & Recommendations

Hippotherapy -- the use of horses in occupational, physical, and speech therapy -- has become an increasingly popular method of complementary therapy for children and adults with a variety of cognitive, physical, and neurological challenges. While anecdotal and correlational evidence in support of hippotherapy is abundant, strong experimental evidence is less common. This presentation briefly reviews the existing literature on the effectiveness of hippotherapy and makes recommendations for future research.

Yeakle, Paige

Time and Trauma in Memoir

In my thesis "Counterlogics of Queer Happiness," I investigate the complex and interlacing relationships between queerness, trauma, memory, emotions, and the body. Via a textual analysis of Lidia Yuknavitch’s The Chronology of Water and Leah Lakshmi Piepzna-Samarasinha’s Dirty River: A queer femme of color dreaming her way home, I propose "queer happiness" to be an affective position that refuses to "choose" between positivity and negativity. Rather, it acknowledges that normative happiness is culturally constructed and, at the same time, creates space for queer trauma survivors to imagine alternative paths to happiness and healing. This presentation focuses on the experience of non-linear time as a tenet of queer happiness.

Zamora, Crystal

Latina Misfit

Latina Misfit is a collection of short stories following a young adult named "Bianca". In the stories we see the intersections of her identities in her day to day life and interactions with her family, friends, and environment during her time in college.