

Apr 29th, 1:30 PM - 5:15 PM

## 2016 Senior Symposium Program

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# OPENING REMARKS • 1:00 PM

Tim Elgren, Dean of the College of Arts and Sciences

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*Location: King 306*

## SESSION I • 1:30-2:30 PM

### PANEL 1: PLAGUED BY DEMONS: REPRESENTING EVIL IN RHETORIC, ENGRAVINGS, AND LITERATURE

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Moderator: **Patrick O'Connor**, Associate Professor of Hispanic Studies and Comparative Literature

**Sean Para**

John the Fearless: Demagogue, Tyrant and Visionary—The Second Valois Duke of Burgundy and the Parisian Mob

**Mir Finkleman**

Demonic Bodies Under Construction

**Rebecca Cohen**

Playing Portefño: Translating History Across Cultural Stages

*Location: King 321*

### PANEL 2: CASE STUDIES IN POWER, KNOWLEDGE, AND NARRATIVE

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Moderator: **Randal Doane**, Assistant Dean of Studies<sup>1</sup>

**Lillian White**

All the Stages of Our Lives: Dramatizing Stories with Men in Prison

**Briana Thompson**

The Relationship Between Fat-centric Programming and the Anti-fat Stigma

**Alex Cunningham**

Black and Still Gold: Africana Cultural Approaches to Knowledge and Formal Education

*Location: King 323*

### **PANEL 3: BEING, BECOMING, AND BEATS: MEDITATIONS ON MUSICAL MEANINGS**

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Moderator: **Ben Geyer**, Visiting Instructor of Music Theory

**Joseph Schlam**

An Ontological Inquiry into the Western Art Composer

**Miriam DuVall**

Critical Pedagogy and Arts-integrated Curriculum in K-12 Schools

**Alex Frank**

The Los Angeles Beat Scene: Using MIDI Tracing as a Framework for Transcription, Analysis, and Creation

*Location: King 327*

### **PANEL 4: MEDIA STUDIES: REPRESENTATIONS OF THE REAL IN BIOLOGY AND GEOLOGY**

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Moderator: **Karla Hubbard**, Associate Professor of Geology

**Elena Loke**

How Do You Describe a New Species? Botanical Illustration of Gypsophilic Plants from the Chihuahuan Desert, Mexico

**Adrian Singleton**

Effects of Grain Size, Mineralogy, and Acid-extractable Grain Coatings on the Distribution of Fallout Radionuclides in River Sediment

**Ashley Ratigan**

Viewing the Underground with Ground Penetrating Radar

*Location: King 337*

### **PANEL 5: THE OBLIQUE, THE GRAPHIC, AND THE (ALLEGEDLY) UNTRANSLATABLE**

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Moderator: **Chris Trinacty**, Assistant Professor of Classics

**Katharine Stevens**

Covering His Asterisk: Allusions to Catullus in Martial's *Epigrams*, Book 9

**Timothy Chung**

Clades Variana: The Literary Shadows of Teutoburg in Tacitus' *Annals*

**Manon Hume**

Twelve Syllables and Counting: Translating Racine's *Andromaque* (1667) in Alexandrines

*Location: King 341*

**PANEL 6: THE PRODUCTION OF SPACE: STUDIES OF ETHNICITY, IDENTITY,  
AND PLACE**

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Moderator: **Wendy Kozol**, Professor of Comparative American Studies

**Jasmine Adams**

Here Today, Gone Tomorrow: How the Demolition of the Chicago Housing Projects Affected Gun Violence

**Madeleine Aquilina**

Boston's Villa Victoria: A Space Produced

**Jesse Gamoran**

The Effects of the Munich Visiting Program on German-Jewish Memory of the Holocaust, 1960-1972

**Orly Verme**

Black Male: Representations within the Art Museum

*Location: King 343*

**SESSION II • 2:45-3:45 PM**

**PANEL 7: MODES OF BIOPHILIA: REFLECTIONS ON HEALTH AND WELLNESS**

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Moderator: **Steve Wojtal**, Professor of Geology, Senior Associate Dean, College of Arts and Sciences

**Allison Fulton**

To Come Alive in Our Experience: The Sounds of Listening in Sigurd F. Olson

**Zoe Braunstein**

Spiritual Approaches to Type 2 Diabetes Management

**Sarah Kahl**

Architecture and Connectedness to Nature

*Location: King 321*

## **PANEL 8: MAPPING THE INTANGIBLE: MEDITATIONS ON MUSICAL MEANING**

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Moderator: **Jared Hartt**, Associate Professor of Music Theory

**Henry Aberle**

Breaking Down “Development”: A Music Theoretical Approach to Understanding Journey in Music

**Flora Hollifield**

Post-structural sounds: Listening to the Relationship Between Post-structuralism and Music in Debussy, Mann, and Joyce

**Cole Lumpkin**

Soundscaping: The Art and Theory of Audio Engineering

*Location: King 327*

## **PANEL 9: “ON THE RIGHT SIDE OF HISTORY”: STUDIES OF STRUCTURES, AGENTS, AND RESISTANCE**

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Moderator: **Gina Perez**, Associate Professor of Comparative American Studies

**Zia Kandler**

Women in Resistance: Impacts on Land, Life, and Community

**Yvette Chen**

Contextualizing Affordable Housing Resistance and Exclusion

**Tomoyo Joshi**

Managing Racist Pasts: The Black Justice League’s Demand for Inclusion and Its Challenge to the Promise of Diversity

*Location: King 337*

## **PANEL 10: BORDER CROSSINGS: CASE STUDIES FROM PALESTINE, KENYA, AND IRAN**

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Moderator: **RaShelle Peck**, Faculty-in-Residence, Africana Studies

**Gabriel Brown**

Contested Land, Contested Representations: Re-visiting the Arab Revolt of 1936-1939 in Palestine

**Sophie Mvurya**

The Role of Foreign Involvement in the Radicalization of Islamic Groups in Kenya

**Willa Rubin**

Waging Wars in Cyberspace: International Law and the Stuxnet Operation

*Location: King 339*

## **PANEL 11: REMAKE, REMODEL: NEW TAKES ON CLASSIC REPRESENTATIONS**

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Moderator: **Drew Wilburn**, Associate Professor of Classics

**Juliet Vincente**

Re-gendering the Eden Serpent

**Ryan Walton**

The True Helen: Identity and Characterization in Euripides

**Emma Sterling**

Don't Look Back: A Retrospective on Orpheus and Eurydice in Augustan Poetry

*Location: King 341*

## **SESSION III • 4:00-5:15 PM**

## **PANEL 12: NATURAL DIVISIONS OF LABOR: STUDIES IN FIELD BIOLOGY**

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Moderator: **Keith Tarvin**, Professor of Biology

**Emma Lucore**

Do Squirrels Let Birds Do Their Work for Them?

**Alexandra Kahn**

Entomopathic Nematodes Found in a Population of Emerald Ash Borers from Connecticut

**Nathaniel Wehr**

Habitat Selection and Activity Patterns Among Wading Birds

*Location: King 321*

## **PANEL 13: DECIPHERING MUSICAL CODES: STUDIES OF "EXCESS," JOY, AND JEWISHNESS**

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Moderator: **Ben Geyer**, Visiting Instructor of Music Theory

**Eve Kummer-Landau**

Ethel Merman: The Effect of "Belt" on the Broadway Musical

**Daniel Hautzinger**

"Music-making in a Joyous Sense": Community and the Dangers of Modernity at Benjamin Britten's Aldeburgh Festival of Music and the Arts

**Lisa Learman**

To Sound Jewish: An Exploration of Faith in the Music of Felix Mendelssohn

*Location: King 323*

**PANEL 14: CODIFYING NATURE, UNDERSTANDING HISTORY: GEOLOGICAL  
TRANSLATIONS OF WATER AND SOIL**

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Moderator: **Bruce Simonson**, Professor of Geology

**Elena Robakiewicz**

Reconstructing Climate Using Pliocene Diatom Abundance

**Megan Curiel and Zanna Doak**

Quantifying Land Use and Erosion in Southwest China

**Joe Martin**

Geologic Mapping of Putative Paleolake Deposits in a Coprates Catena, Mars

**Dominic Fiallo**

Analyzing Geomorphic Impact of Early Agriculture On The Tibetan Plateau

*Location: King 327*

**PANEL 15: DECISIONS, DECISIONS: INVESTIGATIONS OF HUNCHES, ATTITUDES,  
AND RESPONSES**

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Moderator: **Afia Ofori-Mensa**, Visiting Assistant Professor of Comparative American  
Studies and Africana Studies

**William Lynch**

Analyzing Hunch-based Decision Making

**Stephanie Atwood**

Implicit and Explicit Attitudes Towards Transgender People: The Role of Demographic and  
Psychosocial Variables

**Katherine Moncure**

Inverted Quarantine: Individual Response to Collective Fear

**Madeline Peltz**

The Earned Income Tax Credit in the American Political Economy

*Location: King 337*

**PANEL 16: ON SURFACES AND EDGES: USING NUMBERS TO MAKE SENSE OF SOUND, TIME, AND PATTERNS**

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Moderator: **Bob Geitz**, Associate Professor of Computer Science

**James Quintana**

Dimension to Virtual Reality: Ear-eye Coordination with Frequency-responsive Beam Tracing

**Nathan Klein**

Solving an “Unsolvable” Computational Problem: The Approximability of DAG Edge Deletion

**Robert Dorward**

Exact Pattern Containment in Restricted Growth Functions

*Location: King 341*

**PANEL 17: MEDITATIONS ON MOTIVATION, MASTERY, AND MEMORY**

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Moderator: **Cindy Frantz**, Associate Professor of Psychology

**Amy Wedel**

E-juice or Fruit Juice: An Investigation of Adult Motivation for E-cigarette Use Based on Flavor

**Carly Oddleifson**

Children’s Endorsement of Mastery Goals Predicts Their Academic Competence

**Nate Bohm-Levine**

Luteinizing Hormone and the Brain: A Role for Brain-derived Neurotrophic Factor

*Location: King 343*

**RECEPTION • 5:15-6:00 PM**

*Location: Rice/King Courtyard*

# MEET THE PRESENTERS

## **HENRY ABERLE** **EAST ASIAN STUDIES, MUSICAL STUDIES**

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Advisors: Suzanne Gay, East Asian Studies; Jan Miyake, Music Theory  
Mentor: Benjamin Geyer, Music Theory

### **Breaking Down “Development”: A Music Theoretical Approach to Understanding Journey in Music**

Theodor Adorno once stated that the music of Stravinsky, unlike Beethoven, was flawed because it lacked thematic material. His statement points to the necessity of motivic development, which implies a logical journey through mutations of thematic material. Adorno’s harsh definition of what qualifies as a motive led me to investigate how we perceive motive and large-scale form. By synthesizing and then comparing Adorno’s conceptualization of motive with the theories of organicism and developing variation, this project aims to question a simplistic understanding of thematic composition. Theoretical analysis will include works by Beethoven, Debussy, and Schoenberg.

*New York-born Henry is a former recipient of the Tuckership Grant and has conducted research on the game of Karuta. In 2014, Henry received funds from the Japan Foundation to hold a seminar in partnership with the University of Michigan aimed at introducing Karuta, a practically unknown piece of Japanese culture. Following graduation, Henry will work as an Oberlin Shansi Fellow, teaching English at J.F. Oberlin University in Japan. He hopes to one day bring together his passion for orchestral conducting and his love for Japan.*

## **JASMINE ADAMS** **SOCIOLOGY**

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Advisor and Mentor: Clovis White, Sociology

### **Here Today, Gone Tomorrow: How the Demolition of the Chicago Housing Projects Affected Gun Violence**

The purpose of this research is to determine the relationship between the increase in gun violence and the demolition of Chicago’s historically black housing projects. Recent literature tends to assert that only one source (i.e., poverty) contributes to the proliferation of gun violence in our urban communities. I argue that this approach fails to take into account the extreme fluctuation of poverty and violence, which occurred after the demolition of select housing projects in Chicago. The mass migration this caused led to overpopulation of many neighborhoods, which added to the already extreme poverty and lack of resources faced by community members. This, in turn, has led to increased violence in those communities. This project explores the history of the demolition of the housing projects and shows how the demolition, an urban planning decision via the federal government, led to the increase in violence in African American neighborhoods in Chicago.

*Jasmine was born and raised on Chicago’s South Side. She is a Posse Scholar and a Mellon Mays Undergraduate Fellow. Her research focuses specifically on issues plaguing the black community. Since arriving at Oberlin, she has been a Ninde tutor, cochair of SOY and And What!?, and a member of ABUSUA, the Black Student Union. She is heavily involved in black liberation movements, antiviolence movements, and movements centered around rights for young black mothers. After college, she hopes to be a Chicago public school teacher and to create her own violence-prevention program.*

## **MADELEINE AQUILINA**

### **ART HISTORY**

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Advisor: Bonnie Cheng, Art History

Mentors: Sarah Hamill, Art History; Erik Inglis, Art History

#### **Boston's Villa Victoria: A Space Produced**

My research situates the activism and architectural structures of Villa Victoria, a community-designed public housing project in Boston's South End, into broader 20th-century discourses of urbanism. In 1968, the city of Boston sought to displace Puerto Rican residents in order to redevelop the neighborhood and was met with organized resistance, which eventually resulted in resident control and design of the housing project. I use archival materials and visual analysis to identify a slippage between the aims of the activists and the resulting architectural image. Relying on the theoretical apparatus from French neo-Marxist sociologist Henri Lefebvre, my research seeks to reconcile the radical activism and architectural schemes by broadening definitions of space beyond the physical.

*Madeleine grew up in Newton, Massachusetts. She works at the Allen Memorial Art Museum as a curatorial assistant to Denise Birkhofer, the Ellen Johnson '33 Curator of Modern and Contemporary Art. After spending January interning at the Fair Housing Council of Oregon in Portland, she now hopes to find work at the intersection of architectural history and housing activism. During her time at Oberlin, she has enjoyed being on staff at WOBC 91.5 FM and on the board of Big Parade. Come out to the parade tomorrow on College Street at 11 AM for some big fun!*

## **STEPHANIE ATWOOD**

### **PSYCHOLOGY, VIOLIN PERFORMANCE**

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Advisors: Nancy Darling, Psychology; Gregory Fulkerson, Violin Performance

Mentor: Cindy Frantz, Psychology

#### **Implicit and Explicit Attitudes Towards Transgender People: The Role of Demographic and Psychosocial Variables**

Although transgender visibility is on the rise, ample research suggests that people still harbor negative attitudes toward transgender individuals. My honors research in social cognition explores the issue of transgender stigma by examining the magnitude of association between people's implicit and explicit attitudes toward images of transgender people, with a particular focus on the demographic and psychosocial variables that predict unfavorable reactions at the implicit and explicit levels. This research has the potential to enhance our limited understanding of potential motivations behind prejudice and discrimination targeted against transgender individuals and sheds light on the broader stigma against gender-nonconformity.

*Born in China and raised in eastern Massachusetts, Stephanie has been active in the psychological research communities of Oberlin and Harvard University since her first year. At Oberlin, she has collaborated on projects investigating topics such as memory and learning, affective forecasting, music and society, status and identity, and community-based social marketing. Stephanie is also an avid classical musician and has performed in master classes led by members of the Calder, Jupiter, and Takács string quartets. After graduation, she intends to work as a lab manager and eventually pursue graduate studies and a career in social cognition research.*

## **NATE BOHM-LEVINE**

### **NEUROSCIENCE**

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Advisor and Mentor: Jan Thornton, Neuroscience

#### **Luteinizing Hormone and the Brain: A Role for Brain-Derived Neurotrophic Factor**

Memory loss and other forms of cognitive decline are prevalent in post-menopausal women due in part to changes in hormonal levels. Accordingly, estrogen treatment improves cognition—but not without harmful side effects. This has led to research into other hormones on the same axis including luteinizing hormone (LH), which is present at high levels both in humans and in a post-menopausal rat model. Previously, the Thornton lab has found that lowering

LH levels with the drug Antide rescues spatial memory. My honors project examines the role of brain-derived neurotrophic factor, a well-characterized player in cognition, in mediating the effects of LH and Antide on memory.

*Nate hails from Los Angeles and has been working in the Thornton lab since winter term of his sophomore year. Nate is managing editor of The Synapse, Oberlin's science magazine, and a quantitative skills tutor for CLEAR. Aside from studying the sciences, Nate plays jazz piano and has worked on staff as a genre director at WOBC. He plans to continue studying the brain, with plans to pursue an MD/PhD.*

## **ZOE BRAUNSTEIN**

### **INDIVIDUAL MAJOR: HEALTH AND SOCIETY**

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Advisor: Lynne Bianchi, Neuroscience

Advisor and Mentor: Meredith Raimondo, Comparative American Studies

#### **Spiritual Approaches to Type 2 Diabetes Management**

Type 2 diabetes management programs that focus on diet and exercise have proven unable to control the disease in the United States. These programs incorporate the biological, economic, and sociopolitical dimensions of humanity and disease, but largely ignore the spiritual dimension of personhood and disease. Programs that integrate all four dimensions present an opportunity for increased management possibilities. Three oral histories from clergy accentuate the importance of incorporating the spiritual into the management of chronic illness and type 2 diabetes in particular.

*Zoe comes from Maryland and has been involved in a variety of activities on campus, largely surrounding explorations of Jewish identity and interfaith work. Her time away from Oberlin has included policy work on the Hill, supporting research on alcoholism, and working to accommodate people with various levels of ability. After college, she intends to earn a master's degree in public health, eventually working in the public sector on health policy.*

## **GABRIEL BROWN**

### **HISTORY**

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Advisor: Clayton Koppes, History

Mentor: Zeinab Abul-Magd, History

#### **Contested Land, Contested Representations: Re-visiting the Arab Revolt of 1936-1939 in Palestine**

My project examines contested representations of the Arab Revolt of 1936-1939 in Palestine and the interests of the groups that constructed these representations. I use archival documents, historical newspapers, and memoirs to demonstrate that Palestinians tended to portray the conflict as a defining moment of national unity, while British and Zionist leaders understood it as a series of violent, criminal disturbances. My thesis explores Palestinian motivations and tactics in order to challenge characterizations of rebels as "extremists." I argue that the revolt's failure allowed British and Zionist representations to emerge as the hegemonic discourse reaching English-speaking audiences about the rebellion.

*Gabriel comes from Washington, D.C., and holds a long-time passion for Middle East/North Africa studies. He served as head of Tanwir, the MENA studies club, before studying in Jordan in spring 2015. He was fortunate enough to attend the Oberlin in Egypt winter-term trip this January, through which he learned about Egyptian history and hydrogeopolitics. In addition to MENA studies, he has run on the Oberlin cross country and track teams and sung in Oberlin's Musical Union choir. He will help teach and tutor schoolchildren in Kansas City next year with City Year.*

**YVETTE CHEN**  
**ECONOMICS, SOCIOLOGY**

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Advisors: Ron Cheung, Economics; Clovis White, Sociology  
Mentor: Rick Baldoz, Sociology

**Contextualizing Affordable Housing Resistance and Exclusion**

In 1970, the mayor of Mount Laurel, New Jersey, told a crowd of African Americans, “If you people can’t afford to live in our town, then you’ll just have to leave.” Since then, state legislation has banned exclusionary zoning and required towns to provide their fair share of affordable housing. However, New Jersey remains segregated. My research analyzes 140 recent municipal housing plans to understand how allocation of affordable housing fits into longer-run trends of racial discrimination and residential segregation. I find that towns fulfilling less of their affordable housing obligations have higher incomes and avoid building physical units by relying on bonus credits.

*Yvette grew up surrounded by cornfields in West Windsor, New Jersey. At Oberlin, Yvette has been a dedicated co-oper, photographer for the Office of Communications, research assistant, and academic ambassador. Most of her time has been spent lacing up her running sneakers and falling in love with the flat Ohio roads. Next year, she will work at Fair Share Housing Center, a public-interest law firm dedicated to fair housing in New Jersey. She hopes to eventually pursue graduate studies in urban planning.*

**TIMOTHY CHUNG**  
**LATIN**

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Advisors: Christopher Trinacty, Classics; Kazim Ali, Creative Writing  
Mentor: Drew Wilburn, Classics

**Clades Variana: The Literary Shadows of Teutoburg in Tacitus’ Annals**

Tacitus’ treatment of the Battle of Teutoburg Forest in *Annals* 1.61-62 is a graphic and gruesome account of one of Rome’s greatest military defeats. As the language seems to be particularly evocative of the literary traditions of epic poetry and ancient tragedy, I argue that Tacitus invites an interpretation of his historical narrative under a literary lens, particularly as it applies to the figure Germanicus Caesar. Such an approach enriches our reading of *Annals* and provides insight into Tacitus’ intent to disparage the rule of the Julio-Claudians.

*Tim traces his roots to the U.S., South Korea, and China as a Korean-American transplant. His fascination with the classical tradition successfully brought him to seek tutelage from the best of the Achaeans in Oberlin’s classics department. He has since held leadership positions with the men’s rugby team and the Chinese Students Association and looks to enter a career in law upon graduation.*

**REBECCA COHEN**  
**COMPARATIVE LITERATURE**

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Advisor and Mentor: Stiliana Milkova, Comparative Literature

**Playing Porteño: Translating History Across Cultural Stages**

For my comparative literature capstone, I translated the new Argentine play *Síntoma* from Spanish to English. The work is a glimpse into the inner life of a man in his 30s struggling with an identity crisis of political and cultural proportions. With a past drenched in the horrific deeds of the last military dictatorship in Argentina, the protagonist, Leonardo, plays psychological games with his therapist as he circles around the unspoken truth that will alter his reality and implicate everyone he holds dear. In addition to translating the work, I am writing a 30-page explication of the historical context, translation, and performance theory underlying the project and its impending staged reading in mid-April.

*A native New Yorker, Becca can be found dancing, humming, and speaking Spanglish on a daily basis. A passionate performer and scholar with a commitment to social justice, she spends her time volunteering with local community organizations, developing curriculum for a Spanish conversation class, and (like a true Obie) pondering the intersections*

*between sociopolitical oppression, environmental degradation, and the transformational capacity inherent in creative interpersonal connection. Away from campus, she studied in Mexico for a month and Argentina for six months, discovering a love for porteño culture and a hunger to immerse herself in community-building through the arts.*

## **ALEXANDRIA CUNNINGHAM AFRICANA STUDIES, SOCIOLOGY**

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Advisor: Pam Brooks, Africana Studies  
Advisor and Mentor: Clovis White, Sociology

### **Black and Still Gold: Africana Cultural Approaches to Knowledge and Formal Education**

This projects walks through the contemporary U.S. education debate from the perspective of Africana thinkers. In using critical race theory and discourse analysis, this research hopes to contribute to existing philosophies of African American achievement that counter the discourse of urban pathology and underachievement for black communities. This research is concerned with illuminating how black student achievement is often decontextualized within the mainstream education debate. Also, it seeks to pay homage to the legacy of radical innovation toward closing the achievement gap emerging directly from black communities.

*Alex was born and raised on the South Side of Chicago and spent most of her formal education in private Catholic schools. Suddenly, she found herself uprooted from all that she knew—a large part of this uprooting was her transfer into a low-performing public high school. In trying to make sense of her own educational journey in college, Alex reconnected with her home community and shared stories. Ultimately, these narratives laid the foundation for her Mellon research. This presentation is a culmination of two (formal) years of discovery, journey, interrogation, and love that she is thrilled to share with you.*

## **MEGAN CUIEL AND ZANNA DOAK GEOLOGY**

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Advisors: Karla Hubbard, Geology; Bruce Simonson, Geology  
Mentor: Amanda Schmidt, Geology

### **Quantifying Land Use and Erosion in Southwest China**

Over two field seasons, we collected detrital river samples from rural Sichuan, China. Short-lived radioisotope data from the detrital samples constrains timing and magnitude of response to modern Chinese land-use policies. We used geographic information systems (GIS) as an analytical tool to calculate geomorphological change in the area. Our GIS work in one of the field areas reveals dramatic widening of the river channel in response to the largest flood in 60 years. One field area additionally allows us to constrain the relative influence of tectonics and land use on erosion.

*Megan is from San Antonio, Texas, and a four-year member of Oberlin's track and cross country teams. Post-graduation, she will pursue an MFA and plans to integrate her geology and art experience through technical illustration.*

*Zanna comes from Portland, Oregon. She's a member of the women's lacrosse team and has written for the Oberlin Review. After college, she hopes to pursue a graduate degree in geomorphology, focusing on natural hazard risk assessment or resource conservation.*

## **ROBERT DORWARD COMPUTER SCIENCE, MATHEMATICS**

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Advisors: Alexa Sharp, Computer Science; Lola Thompson, Mathematics  
Mentor: Kevin Woods, Mathematics

### **Exact Pattern Containment in Restricted Growth Functions**

In the mathematical field of enumerative combinatorics, we study the number of ways a pattern can emerge given certain constraints. In my research I examine the ways that a mathematical object called a "restricted growth function" (RGF) can be contained in another RGF and the distribution of certain "combinatorial statistics" on sets

of RGF's containing others. I find connections to many famous combinatorial objects such as set partitions, integer partitions, Fibonacci numbers, Pascal's triangle, Catalan numbers, and more.

*Originally from California's Bay Area, Bobby was immersed in music until taking several math classes at Oberlin. Since then, he has participated in two summer research programs at Michigan State University and Williams College. Bobby has also worked as a tutor, lab helper, grader, or OWLS leader in all but his first two semesters. When not working on math, Bobby enjoys playing and listening to music, hiking, and playing frisbee, having been a member of Oberlin's Ultimate team. After his time at Oberlin, Bobby plans to either enter the tech world or get a PhD.*

## **MIRIAM DUVALL**

### **MUSICAL STUDIES**

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Advisors: David Kelly, History and East Asian Studies; Jan Miyake, Music Theory  
Mentor: Benjamin Geyer, Music Theory

#### **Critical Pedagogy and Arts-integrated Curriculum in K-12 Schools**

Focusing on K-12 schooling, this capstone paper discusses critical pedagogical theories in conjunction with arts-integrated and interdisciplinary curriculum. Studies have shown that arts-integrated and interdisciplinary curriculum can increase teacher awareness, help students make connections, and foster a healthier school culture. Arts-integrated and interdisciplinary studies have the potential to help restructure institutionalized power dynamics to incorporate more student voices and create a more responsive educational process. This paper hones in on the role of music education within the context of restructuring power dynamics in educational systems.

*Miriam is from upstate New York. She has been playing the cello for 12 years and studies with Professor Amir Eldan. She enjoys music teaching, as well as looking for alternatives to traditional ways of learning.*

## **DOMINIC FIALLO**

### **GEOLOGY**

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Advisor: Bruce Simomson, Geology  
Mentor: Amanda Schmidt, Geology

#### **Analyzing Geomorphic Impact of Early Agriculture on the Tibetan Plateau**

Loess hillslope terraces, interpreted alternately as anthropogenic or geologic, are a pervasive feature in Jiuzhaigou National Nature Reserve (JNNR) in northern China. Archeological research indicates the presence of a human settlement in JNNR as early as 1400 BCE with a period of abandonment between 700 and 500 BCE. Optical luminescence dating on terrace scarps indicates scarp formation to coincide with the date of abandonment. I interpret the abandonment as early settlers' response to self-induced natural disaster. I am using mathematical models of hill-slope failure to determine the intensity of land use required to force slope failure. This project seeks a more concrete understanding on the efficacy of humans as geomorphic agents. I approach a difficult question for the future: is our footprint growing so large as to render geologic processes irrelevant?

*Dominic is from East Longmeadow, Massachusetts. Since sophomore year, he has been doing research with Professor Schmidt through the support of the Mellon Mays Undergraduate Fellowship. Outside of the classroom, Dominic plays lacrosse and works as a student accessibility advocate for the Office of Disability Services.*

## **MIR FINKELMAN**

### **ART HISTORY**

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Advisor and Mentor: Erik Inglis, Art History

#### **Demonic Bodies Under Construction**

Demons are a common presence in European art of many mediums, their characters often easily read through their forms. How these forms are constructed, however, is not as easily deduced. This paper seeks to explore, through sustained engagement with German engraver and printer Martin Schongauer's late 15th-century engraving *The*

*Temptation of Saint Anthony*, the varying themes that may have developed a standardized iconography of demons. Exploration of themes, including religious binaries and their inversion, Christian dogma, physiognomy, and concepts of the imagination, shed light on how these forms are constructed by Schongauer and how his audiences may have interpreted them.

*Mir is from New York City and has involved herself wholly in Oberlin's art curricula. A passionate art history major, she has participated in the Allen Memorial Art Museum's practicum in museum education; worked as a docent in the Allen and at the Weltzheimer/Johnson House; spent countless hours behind the circulation desk at the Clarence Ward Art Library, engaging with books and patrons alike; and traveled Europe with the sole purpose of absorbing and learning about art and culture. She hopes to pursue a career in museum work, bridging the gap between curation and public engagement programming.*

## **ALEX FRANK MUSICAL STUDIES**

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Advisor and Mentor: Jennifer Fraser, Ethnomusicology and Anthropology

### **The Los Angeles Beat Scene: Using MIDI Tracing as a Framework for Transcription, Analysis, and Creation**

MIDI tracing is a process that uses digital audio workstation software to recreate or "trace" a song or beat by comparing it to the original audio track. The model of MIDI tracing can be used on its own as a means of transcription, as a basis for analysis, and as an educational tool. I propose the use of MIDI tracing as a framework to understand popular electronic music, specifically in the context of Los Angeles' diverse "beat scene."

*Alex comes from the Bay Area of California. He is an instructor at the rock climbing wall in Philips gym and has led classes for local middle and high school students. Alex is a TA for the course Ethnomusicology as Activism, taught by Jennifer Fraser, and spent last semester helping her create the course and choose readings for the syllabus. He spent a winter term abroad in Indonesia learning about Islam, music, and natural disasters. Alex plans on pursuing a career in electronic music production and film scoring.*

## **ALLISON FULTON ENGLISH**

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Advisor: Keith Tarvin, Biology

Advisor and Mentor: T.S. McMillin, English

### **To Come Alive in Our Experience: The Sounds of Listening in Sigurd F. Olson**

My research explores the reflective qualities of nature that can lead to different ways of being in and of the world. In *The Singing Wilderness*, Sigurd Olson details his experiences in the Quetico-Superior region, an international wilderness of lakes and forests on the border of Canada and Minnesota that is replete with spaces for reflection. Olson encourages his readers to listen to the sounds, songs, and silences of the wilderness. I address his creation of the literary terrain he made accessible to his readers by acting as a guide to the imaginative wilderness with a literary canoe and paddle.

*Ally, from Saint Paul, Minnesota, is a writing and speaking associate for the Writing Associate Program. She has worked as a reading and writing tutor at Oberlin's Eastwood Elementary School, captained the women's frisbee team, and conducted biology research on eastern gray squirrel response to heterospecific chickadee alarm calls in Keith Tarvin's lab. She spent her sophomore year winter term on campus participating in the letterpress printing project, which spurred her interest in book arts, papermaking, and printing. After graduation, she intends to pursue work in environmental education and then go on to graduate work in environmental literature.*

## **JESSE GAMORAN**

### **GERMAN, HISTORY, AND JEWISH STUDIES**

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Advisors: Elizabeth Hamilton, German; Leonard Smith, History; Abe Socher, Jewish Studies  
Mentor: Annemarie Sammartino, History

#### **The Effects of the Munich Visiting Program on German-Jewish Memory of the Holocaust, 1960-1972**

In 1960, during a resurgence of anti-Semitism, the Munich government initiated a program to invite Jewish former residents of Munich (who left during the 1930s due to the Nazis) back to their hometown for two-week visits. This program offered the participants a chance to reminisce about their childhoods, reconnect with their heritage, and visit their former communities. For the government, this program provided a crucial connection between the old pre-war Munich and the new Munich of the 1960s, between Munich as the birthplace of National Socialism and Munich as a newly rebuilt city, ready to move forward from the Holocaust.

*Jesse comes from the suburbs of Chicago and is the student representative on the General Faculty Library Committee. He has worked in various capacities at the library, as a reference assistant and coordinator of the student Friends of the Library. He has also greatly enjoyed playing flute in the Oberlin College Marching Band and volunteering for a semester at Langston Middle School. Jesse spent his third year of college studying Jewish history at the University of Munich and volunteering at an outdoor kindergarten. After college, he hopes to work in secondary history education.*

## **DANIEL HAUTZINGER**

### **HISTORY, PIANO PERFORMANCE**

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Advisor: Alvin Chow, Piano  
Advisor and Mentor: Annemarie Sammartino, History

#### **“Music-making in a Joyous Sense”: Community and the Dangers of Modernity at Benjamin Britten’s Aldeburgh Festival of Music and the Arts**

In 1948, the composer Benjamin Britten inaugurated the Aldeburgh Festival of Music and the Arts in the provincial British town of Aldeburgh. My research explores Britten’s attempt through the festival to combat the alienation and consumerism of modernity by creating a vividly human community based upon a shared, localized musical experience. Through amateur participation and interpersonal connection, Britten sought to affirm the social value of art in the modern era.

*A Chicago native, Daniel is finishing his double degree in four years. He has sung in the a cappella group ‘Round Midnight and the Collegium Musicum and has given a lecture recital on mazurkas. He works in the conservatory communications office and has written about music for numerous publications. Having established roots in Chicago through internships with the late critic Andrew Patner and the new music groups eighth blackbird, Third Coast Percussion, and Ensemble Dal Niente, he will work as an artistic/production assistant for the Grant Park Music Festival this summer.*

## **FLORA HOLLIFIELD**

### **COMPARATIVE LITERATURE, VIOLIN PERFORMANCE**

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Advisors: Elizabeth Hamilton, Comparative Literature; David Bowlin, Violin Performance  
Mentor: Jed Deppman, Comparative Literature

#### **Post-structural sounds: Listening to the Relationship Between Post-structuralism and Music in Debussy, Mann, and Joyce**

Western thought has long been troubled by the metaphysical and semantic problems of music. Unable to satisfyingly rationalize sound, philosophers and theorists of the Symbolist movement at the end of the 19th century constructed the myth of music as the ideal art for its intangibility. This project works to deconstruct this myth through the application of post-structural theory to the music of Debussy. It is the metaphysical multiplicity of a musical note in

Debussy that leads to an understanding of the symbiotic relationship of music in literature, which I explore through the literary examples of Thomas Mann's *Doktor Faustus* and James Joyce's *Finnegans Wake*.

*Flora hails from Dallas and is a double-degree student. Her passion for languages, literature, and music have culminated at Oberlin, allowing her to gain a practical understanding of art through practicing and performing as a conservatory student as well as an intellectual understanding through a variety of literature classes in both French and German. Flora spent a semester abroad in Vienna studying violin and attending classes at the University of Vienna. She will most likely return to Vienna in the fall to continue her musical studies.*

## **MANON HUME**

### **COMPARATIVE LITERATURE, EAST ASIAN STUDIES, FRENCH**

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Advisors: Ann Sherif, East Asian Studies; Preea Leelah, French

Mentor: Matthew Senior, French

#### **Twelve Syllables and Counting: Translating Racine's *Andromaque* (1667) in Alexandrines**

Jean-Baptiste Racine is easily one of the most influential dramatists in French history. Yet centuries after his plays first hit the stage, he is still considered "untranslatable" by Anglophone audiences. This project not only delves into the unique aspects of Racinian verse, but undertakes a never-before-attempted technique to translating them: maintaining the original classical French alexandrine format. Through the analysis and comparison of my "French alexandrine in English" with other English translations, I examine the benefits of this new approach and its attempt to capture "la musique racinienne."

*Manon is a native Ohioan from Chillicothe. As cochair of the Oberlin Harry Potter Alliance, she created the Room Escape and Wizard and Witches' Faire charity events. She loves ice hockey and was the Plague's goalie, publicist, and 2013 MVP. During her four years living in La Maison Francophone, she organized "les soirées dessins animés" and served as compost captain. She also participated twice in the Translation Symposium. After a winter term dedicated to researching French comics and a capstone examining the spatial aspects of translation, Manon hopes to continue her studies of translation and visual media in the future.*

## **TOMOYO JOSHI**

### **GENDER, SEXUALITY, AND FEMINIST STUDIES**

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Advisor and Mentor: Ann Sherif, East Asian Studies

Mentor: Jan Cooper, Rhetoric and Composition

#### **Managing Racist Pasts: The Black Justice League's Demand for Inclusion and Its Challenge to the Promise of Diversity**

I will present the results of my honors thesis, in which I examine online diversity initiative pages, student activism, and administrative responses that took place in fall 2015 at Princeton University. In the first section, I analyze Princeton's online diversity initiative page, "Many Voices, One Future," by demonstrating how "diversity" becomes individualized, commodified, and quantified. In the second section, I investigate how the actions of and responses to the Black Justice League challenge the rhetoric of diversity that the administration embodies. Ultimately, I question the implications of demanding "inclusion" into the academy almost half a century after the struggle for ethnic studies.

*Tomoyo was born in Kyoto, Japan, raised in the California Bay Area, and graduated from a school in Kobe, Japan. At Oberlin, she is a member of the Asian American Alliance and Japanese Students Association. As a Mellon Mays Undergraduate Fellow, she is interested in the intersections of Asian and Asian American studies, the politics of knowledge production, and critical race theory. After graduating, Tomoyo plans on attending a doctoral program in ethnic studies.*

## **SARAH KAHL PSYCHOLOGY**

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Advisor: Cindy Frantz, Psychology  
Mentor: Stephan Mayer, Psychology

### **Architecture and Connectedness to Nature**

Connectedness to nature is one's emotional connection to the natural world and has many psychological benefits. This study uses the Adam Joseph Lewis Center (AJLC) and Mudd to determine whether architecture can influence one's connectedness to nature. We found that Mudd decreases one's connectedness to nature, potentially due to the architecture style. Participants maintained their connectedness to nature in the AJLC. Implications are discussed, such as including aspects of nature into architecture.

*Sarah, who is from Boston, competed on Oberlin's varsity swim team for two years as a sprint freestyler. In the fall of her third year, she traveled to Zanzibar and Dar Es Salaam, Tanzania, to study coastal ecology and natural resource management. Back in Oberlin, she focused on her research and her job as an assistant for the dean of students. Her research consisted of the piloted connectedness to nature study and community-based social marketing (CBSM) for sustainable behavior at Oberlin. In February 2015, she attended a social psychology conference with Cindy Frantz to present research on CBSM.*

## **ALEXANDRA KAHN ENVIRONMENTAL STUDIES**

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Advisor: John Petersen, Environmental Studies  
Mentor: Yolanda Cruz, Biology

### **Entomopathic Nematodes Found in a Population of Emerald Ash Borers from Connecticut**

The Emerald Ash Borer (*Agrilus planipennis*) is an invasive beetle in the U.S. that has been spreading since 2003, with devastating effects on ash trees. One potential method for controlling outbreaks is biological control. I looked for nematode parasites within a population of EABs with the goal of finding species that had potential to be used as bio-control agents and found at least two, both at low infestation rates. One of these species, due to its close phylogenetic relatives, seems unlikely to be useful for large-scale bio-control, but the other is still worth further investigation.

*Alexandra is from the Bronx, New York. She likes invertebrates, especially nudibranchs and beetles. In her free time, she loves to scuba dive, throw pots, and play tennis. She will choose the ocean over the mountains any day of the week, not that it's been relevant for the past four years. After graduating, Alexandra hopes to work in the setting of a natural history museum so as to involve herself in an environment that combines her three biggest passions: scientific research, art, and education.*

## **ZIA KANDLER COMPARATIVE AMERICAN STUDIES**

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Advisor and Mentor: Janet Fiskio, Environmental Studies

### **Women in Resistance: Impacts on Land, Life, and Community**

Following the 1996 peace accord, which ended 36 years of civil conflict, Guatemalans have been struggling with state-sanctioned violence linked to neoliberal structural adjustments. In summer 2015, I recorded testimonials from women in a community that is actively resisting a mine that threatens their health and safety. The women spoke of the need to protect their water and land from the poison of the transnational companies. They articulated their desire for a change from the neoliberal capitalism that is forcing migration toward the global north, and they hope for a future where their voices are heard and lives are valued. Their stories humanize the determinantal effects of the neoliberal-extractivist model that thrives on the oppression of women and their health and futures, making a space for recognition, reflection, and advocacy toward a more just Guatemala.

*Zia was born in Germany and raised in Pittsburgh. She has been involved in community organizing for more than six years on issues surrounding environmental justice, antiracism, and sexualized violence. Zia has organized education conferences with community members, colleges across the state, and local elders. In 2015, she studied abroad in Central America and, after the program, stayed in Guatemala and conducted the oral history project described above. Next year she will travel to Guatemala to work as a human rights accompanier.*

## **NATHAN KLEIN**

### **CELLO PERFORMANCE, COMPUTER SCIENCE**

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Advisors: Amir Eldan, Cello; Alexa Sharp, Computer Science  
Mentor: Tom Wexler, Computer Science

#### **On the Approximability of DAG Edge Deletion**

The DAG Edge Deletion problem of  $k$ , or  $DED(k)$ , is to delete the minimum weight set of edges from a directed graph such that the remaining graph has no path of length  $k$ . It can be used to find the best schedule for completing tasks with soft precedence constraints within  $k$  time-steps. In 2015 Kenkre et al. showed that  $DED(k)$  has no polynomial-time approximation algorithm with ratio better than  $k/2$  unless the Unique Games Conjecture is false. However, the best known approximation algorithm has a ratio of  $k$ . In this work we tighten this gap by giving a  $(2/3)k + O(1)$  approximation for  $DED(k)$ .

*Nathan hails from New York City and enjoys sharing his love of math, computer science, and music. This is his fourth semester leading workshops as an OWLS leader, and last fall he taught an ExCo course on the intersection of math and art. In five years you'll probably find him playing chess with an old man in a park.*

## **EVE KUMMER-LANDAU**

### **MUSICAL STUDIES**

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Advisors: Frederica Hadley, Ethnomusicology; James O'Leary, Musicology  
Mentor: Ben Geyer, Music Theory

#### **Ethel Merman: The Effect of "Belt" on the Broadway Musical**

The presentation will address the impact of Ethel Merman's "belting" voice on musical theater. On October 14, 1930, Merman's song in the Gershwin brothers' *Girl Crazy* actually stopped the show, not allowing it to continue until Merman performed 16 encores. My thesis will explore events leading up to that moment, as well as the effects of Merman's voice on the Broadway musical that set musical theater on the path to where it is today. Although the verb "to belt" as it relates to singing did not emerge until the 1950s, Merman is still credited as bringing the sound to Broadway.

*Eve, from Brooklyn, New York, is very involved with theater on campus. She has been in a production every semester, including this spring, when she performed in the theater department's mainstage, Psycho Beach Party. She currently works in the costume shop and is a member of the Acapelicans and Vibe Tap. Post college, Eve will move back to New York to pursue a career in theater in any way she can.*

## **LISA LEARMAN**

### **BIOLOGY, MUSICAL STUDIES**

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Advisor: Yolanda Cruz, Biology  
Advisor and Mentor: Sigrun Heinzelmann, Music Theory

#### **To Sound Jewish: An Exploration of Faith in the Music of Felix Mendelssohn**

Felix Mendelssohn's conversion from Judaism to Lutheranism has sparked debate regarding his theological proclivities and their influences on his compositional style. Some musicologists believe that a Christo-centric theology defines Mendelssohn's music entirely. Others maintain there are elements of Mendelssohn's compositions that sound distinctly Jewish. This study examines tonal, rhythmic, and structural aspects of a representative sample

of compositions, as well as relevant secondary sources that discuss what it means to sound “Jewish,” in order to explore how culture and faith are represented in Mendelssohn’s music.

*Lisa comes from Indianapolis. She has participated in the Oberlin Arts and Sciences Orchestra, the Oberlin College Marching Band, and the pit orchestra for several Oberlin Musical Theater Association productions. Her musical research interests include the analysis of German lieder and the intersection between faith and composition. In the biology department, she conducts genetics research in the Peters lab, which studies intestinal calcium signaling and tissue coordination. Next year, Lisa will begin a PhD program in cellular and molecular medicine at Johns Hopkins School of Medicine.*

## **ELENA LOKE**

### **BIOLOGY**

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Advisor: Roger Laushman, Biology

Mentor: Michael Moore, Biology

### **How Do You Describe a New Species? Botanical Illustration of Gypsophilic Plants from the Chihuahuan Desert, Mexico**

In today’s technology-dominated society, botanical illustration may seem like a throwback to the past. Why spend so much time doing botanical illustration when you can just take a photograph and call it done? Botanical illustration allows the artist to depict the true essence of the plant in a way that a photograph cannot. Exploration of the Chihuahuan Desert in Mexico by the Moore lab has led to the discovery of new plant species on gypsum deposits. I illustrated multiple new species and worked with Professor Moore on a species description of the new *Acleisanthes* species.

*Elena grew up in the California Bay Area. She has loved plants ever since working in the garden with her mom and camping with her family in the Sierra Nevada. She has worked in the biology department greenhouse and courtyard garden for the past two years. Art and plants have always been important to her, and she started studying botanical illustration five years ago. She enjoys running and cooking in her spare time. After graduation, she plans to pursue a career in ecological restoration. She will present her botanical illustrations at the Botany 2016 conference in Savannah, Georgia, this summer.*

## **EMMA LUCORE**

### **BIOLOGY**

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Advisor: Amy Margaris, Anthropology

Advisor and Mentor: Keith Tarvin, Biology

### **Do Squirrels Let Birds Do Their Work for Them?**

Previous research shows that squirrels eavesdrop on avian species and increase their vigilance in response to alarms that signify predation risk. Vigilance behaviors detract from time that squirrels spend foraging or eating, so maintaining vigilance is costly. I am studying whether squirrels exhibit fewer vigilance responses in the presence of avian species that produce “squirrel-relevant” alarms by noting the frequency of vigilance responses when presented with recordings of chatter from avian mixed species flocks. If squirrels can rely on other species to relay information about predation risk, then they should be able to forage while keeping the potential cost of becoming prey relatively low.

*Emma is from Silver Spring, Maryland, and has been a part of the squirrel research team in Keith Tarvin’s lab for two years. She is an active member of OSCA and cofounder of the Craft Club. After college, she plans to pursue a graduate degree in behavioral ecology.*

## **COLE LUMPKIN MUSICAL STUDIES**

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Advisor: Jennifer Fraser, Ethnomusicology

Mentor: Ben Geyer, Music Theory

### **Soundscaping: The Art and Theory of Audio Engineering**

With the high rate of advancement in sound reproduction over the course of 100 years, the concept of recording and enhancing sound for playback has become an integral part of not only the music industry but the music itself. The role of the recording and mixing engineers is to forge “soundscapes” using a set of parameters that modify and organize the recorded sound. These techniques are integral to discussing any music theory today, as music has transcended being solely performance-practice based, and the technique of mass reproducing a song is now defined by the sculpting of it sonically.

*Cole is from New York City. He is a musician, primarily a jazz pianist and percussionist, and has produced and recorded for several Oberlin artists and ensembles. He is a sound engineer for Oberlin’s concert sound department, has played drumset and percussion in a multitude of pit orchestras and in the jazz ensemble, is the pianist in Oberlin’s musical improv comedy troupe The Sunshine Scouts, and codirects Oberlin’s only Jewish music a capella group.*

## **WILLIAM LYNCH NEUROSCIENCE**

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Advisor: Leslie Kwakye, Neuroscience

Mentor: Michael Loose, Neuroscience

### **Analyzing Hunch-based Decision-making**

Often, individuals make decisions simply due to “hunches” and seemingly independent of previous information. However, it is possible that these hunches are more informed by previous information than expected. We hypothesized that in instances where prior information strongly predicted subsequent choices, the person would be more likely to form a hunch. We used a computerized task in which individuals predicted which marble would be drawn from a bag and determined whether they would “wager” on their choice to indicate a hunch. We evaluated both basic predictors and more complex decision-making strategies and evaluated whether they predicted subsequent wagers.

*Will is from northern Virginia and has worked with Professor Loose for three semesters. Since arriving at Oberlin he has been a member of the Oberlin Music Mentors and Solarity and worked as an overnight host and lab TA for Chem 101. Currently he serves as an OWLS leader for organic chemistry and as a site leader at Langston Middle School for America Reads. After graduation Will will work in a research lab at the University of Texas Health Science Center at San Antonio, analyzing reward mechanisms and how they contribute to diseases like drug addiction, then will attend graduate school.*

## **JOE MARTIN GEOLOGY**

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Advisor: Steven Wojtal, Geology

Mentor: Brian Hynek, Laboratory for Atmospheric and Space Physics, University of Colorado

### **Geologic Mapping of Putative Paleolake Deposits in a Coprates Catena, Mars**

The surface of Mars has many features that indicate it once had significant surface water. The identification and study of these features offers us a better understanding of the role that water has played in the geologic history and the potential biologic history of the planet. As part of a PGG-funded study to produce a geologic map of Coprates Chasma, work has been started on a finer scale map of a catena in the region. Preliminary mapping suggests that it once hosted a lake, as indicated by what appear to be laterally continuous basal deposits, fan deposits, and phyllosilicate signatures.

*Joe is from Chicago and has a strong interest in GIS and spatial analysis. She has been an active member of OSCA since her first semester, holding a variety of leadership roles. She has been working in the geomorphology lab for almost two years. Recently, Joe started working with Brian Hynek at the Laboratory for Atmospheric and Space Physics on a geologic map of a section of Valles Marineris. She hopes to continue investigating the geomorphology of earth and other terrestrial planets using remotely sensed data.*

## **KATHERINE MONCURE**

### **SOCIOLOGY**

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Advisor: Greggor Mattson, Sociology

Mentor: Christie Parris, Sociology

#### **Inverted Quarantine: Individual Response to Collective Fear**

In *Shopping Our Way to Safety* (2007), sociologist Andrew Szasz coined the term “inverted quarantine” to describe how Americans react to the changing natural environment. Inverted quarantine, or the impulse to remove oneself from perceived environmental dangers, often manifests in consumption behavior such as consuming only organic food, drinking filtered or bottled water, moving from a city to a suburb, or even being enclosed in a gated community. Although inverted quarantine may result in some form of protection, in the long run it is unsustainable in the face of the changing natural environment. Through investigations in literature and in-depth interviews with Ohio farmers, Oberlin College students, and parents in Fairfield County, Connecticut, this study examines different ways that environmental dangers are perceived and addressed across three different demographics.

*Katherine is from southwestern Connecticut. She has performed in several dance shows at Oberlin, participated in the Oberlin College Aerialists, and volunteered as an instructor in the Spanish in the Elementary Schools (SITES) program. Katherine studied abroad in Córdoba, Spain, and recently participated in the National Science Foundation’s Research Experience for Undergraduates Program at the University of Texas at Austin, where she conducted research on demography in U.S. crime and punishment. After Oberlin, she hopes to continue pursuing social science research, especially in an environmental context.*

## **SOPHIE MVURYA**

### **POLITICS**

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Advisor: Kristina Mani, Politics

Mentor: Darko Opoku, Africana Studies

#### **Terrorism in Kenya: The Role of Foreign Involvement in Islamic Radicalization**

This paper explores the relationship between terrorism, foreign policies, and Islamic radicalization in Kenya. In the midst of Somalia’s 22-year political crisis, and the subsequent surge in radicalization, American policy appears somewhat paralyzed, or at least divided between the quest for diplomatic solutions and direct military action. This paper reviews the background of Kenya’s invasion of Somalia and concludes that Kenya’s deep-rooted ethnic tensions and patronage politics further undermine the country’s ability to carry out effective foreign policy. The first part discusses the historical marginalization of Kenya’s Muslims, particularly from the northeastern and coastal regions, and examines the nation’s political tyranny. Thereafter it analyzes why and how foreign government involvement in Kenya’s security matters has aggravated the marginalization of Kenyan Muslims. Undoubtedly, the prominence of Al-Shabaab in 2008 provided a platform for Muslims to channel their grievances, thereby increasing radicalization in Kenya.

*Sophie is a Kenyan national who served as a student representative on the college’s strategic planning board and committee and as an RA in Afrikan Heritage House. At Oberlin, she has danced with Dance Diaspora all four years, through which she had the opportunity to dance in The Gambia this past winter term. After college, she plans to pursue a number of social entrepreneurial ventures focused on using the arts for social change and empowerment.*

## **CARLY ODDLEIFSON**

### **PSYCHOLOGY**

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Advisor: Nancy Darling, Psychology

Mentor: Travis Wilson, Psychology

#### **Children's Endorsement of Mastery Goals Predicts their Academic Competence**

Children's academic motivation has implications for current and future scholastic performance. Students who espouse mastery goals focus on the process of learning, whereas students who espouse performance goals focus on how they appear to others. In the present study, students who endorsed mastery goals were more academically competent than students who endorsed multiple goals. This finding speaks to the unresolved scholarly debate between the mastery and multiple-goal perspectives. It contributes to an understanding of the patterns and development of children's academic strivings, thereby helping concerned adults facilitate age-appropriate learning environments that foster children's optimal development.

*Carly is from the South Shore of Massachusetts. Through working on her honors project, teaching Spanish in the Elementary Schools (SITES), and leading summer camp groups on an organic farm, she grew passionate about the healthy development of children in sustainable communities. She aspires to engage in research that informs interventions and education practices that support all children in elementary school.*

## **SEAN PARA**

### **HISTORY**

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Advisor and Mentor: Ellen Wurtzel, History

#### **John the Fearless: Demagogue, Tyrant and Visionary—The Second Valois Duke of Burgundy and the Parisian Mob**

My capstone project focused on a 15th-century French prince named John the Fearless, Duke of Burgundy. John the Fearless became embroiled in a brutal civil war against another faction of royal princes. He then took control of the government with the aid of radical urban revolutionary government in Paris in a bid to control all of France, which was largely unprecedented in French history. My capstone focuses on John the Fearless' demagogic rhetoric and why exactly he sought the support of the Parisian bourgeois and working class, who were typically excluded from medieval politics.

*Sean is from New York City and has always been deeply interested in history—specifically medieval history. Sean writes an opinion column for the Oberlin Review and is a proud member of the men's rugby team. Sean wants to work in foreign policy writing or a related field. Writing a capstone was a favorite academic experience at Oberlin, and Sean would love the opportunity to share it with others.*

## **MADELINE PELTZ**

### **POLITICS**

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Advisor: Eve Sandberg, Politics

Mentor: Chris Howell, Politics

#### **The Earned Income Tax Credit in the American Political Economy**

My paper focuses on the legislative, theoretical, and historical development of the earned income tax credit. By examining the related histories of the development of the income tax, welfare state, and tax credits for low-income families, my paper concludes that American attitudes toward work ethic and systemic unemployment propelled the EITC to prominence.

*Since arriving at Oberlin, Madeline has advocated for voting rights on campus. She is former cochair of the Oberlin College Democrats and a 2013 Cole Scholar. Madeline spent each of her summers interning in Washington, D.C., including in Senator Sherrod Brown's office and the Center on Budget and Policy Priorities.*

**JAMES QUINTANA**  
**COMPUTER SCIENCE, TIMARA**

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Advisor and Mentor: Bob Geitz, Computer Science

**Dimension to Virtual Reality: Ear-eye Coordination with Frequency-responsive Beam Tracing**

My project presents elaborations upon the acoustical beam tracing algorithm. Beam tracing for audio approximates reverberation filters present in physical architectural scenes by analyzing digital models of those scenes to compose the impulse responses of those filters. The algorithm as originally presented takes into account some of the acoustic absorption properties of the materials making up the scene. However, it has been previously assumed that each surface that reflects or transmits sound does so at an even distribution across the space of audible frequencies. I describe a method for incorporating non-flat frequency responses of surfaces, which resolves this shortcoming.

*James came to Oberlin from San Diego. They are a double-degree student in TIMARA and computer science and have been able to apply their cross-disciplinary studies in research. Last year, they presented research on smooth panning across irregular speaker arrays. They founded and direct the Oberlin Contemporary Vocal Octet and will pursue a career in software at Pivotal Software, Inc., after graduation.*

**ASHLEY RATIGAN**  
**ARCHAEOLOGY, GEOLOGY**

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Advisor and Mentor: Karla Hubbard, Geology

**Viewing the Underground with Ground Penetrating Radar**

Since its founding, many of Oberlin College's original buildings in Tappan Square have been razed. Oberlin College Archives has historical maps documenting the approximate positions of these buildings throughout time and indicate when the buildings were built and demolished. For my project, I am attempting to use Ground Penetrating Radar (GPR) to locate and map these buried structures. GPR is a nuanced mechanism for viewing underground objects that relies heavily on interpretation. I am interpreting GPR readings from Tappan Square to compare them to records of Oberlin's history.

*Ashley is from a small town in Rhode Island. She is double majoring in archaeology and geology. Her spring semester junior year was spent in New Zealand with the Frontiers Abroad program. After graduation, she plans to travel and work in various jobs before attending graduate school.*

**ELENA ROBAKIEWICZ**  
**GEOLOGY**

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Advisor and Mentor: Karla Hubbard, Geology

**Pliocene Diatom Abundance as Proxy for Temperature In Weddell Sea: ODP Site 697**

During the Pliocene, carbon dioxide in the atmosphere was approximately 400 ppm. Today's atmosphere exhibits similar carbon dioxide levels. Analyzing diatom abundance and changes in species diversity in the Weddell Sea during the Pliocene provides insight into temperature and sea-ice cover changes during this important time interval. Diatom abundance and diversity at ODP Site 697 displays distinct species oscillations between 3.26 to 3.03 million years ago. Colder periods include 3.23 mya, 3.08 mya, and begin again around 3.03 mya.

*Elena is from central Massachusetts. She is pursuing a geology major with a history minor. Since arriving at Oberlin, she has devoted much of her time to ViBE Tap, acting as president for three semesters. She studied abroad in Berlin during spring of her junior year and received a Keck scholarship to pursue this research. After graduation, Elena will be in Germany on a Fulbright pursuing new geology research. She hopes to continue her education to become a geology professor.*

## **WILLA RUBIN POLITICS**

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Advisor and Mentor: Ben Schiff, Politics

### **Waging Wars in Cyberspace: International Law and the Stuxnet Operation**

My project examines the following question: Could Iran retaliate against the U.S. for initiating the Stuxnet cyber operation on Iran's nuclear facility at Natanz? I find that due to Stuxnet's technical capabilities, it would likely be considered an act of aggression in international law. However, if the culprit and target states—if they were states at all—could not be determined, the response to my question would be much less clear. I draw my analysis from ICJ cases, the UN Charter, and other foundational documents; technical analyses of the Stuxnet operation; and other historical and political books and articles.

*Willa is a proud New Yorker and a politics major with minors in French and creative writing. She plans to pursue investigative journalism and is very excited about using digital platforms to tell and develop stories. Willa can often be found at Slow Train with Ceylon tea (which she affectionately calls "Cylon tea" in honor of Battlestar Gallactica), poring over FCC requirements for WOBC, where she is the operations manager and hosts a show on women in '90s punk. You might also see her performing sketches with Piscapo's Arm, providing tech support at CIT, or fixing weapons/fencing sabres on Oberlin's club fencing team. In the words of Jeb Bush (may his campaign RIP), "please clap."*

## **JOSEPH SCHLAM MUSICAL STUDIES**

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Advisor: Ellen Sayles, Associate Dean of Studies

Mentor: Ben Geyer, Music Theory

### **An Ontological Inquiry into the Western Art Composer**

This paper identifies historical moments foundational to the concept of the Western art music composer as an individual author of fixed musical works. The 17th-century reduction of Renaissance modality into major and minor modes establishes tonal harmony as the composer's primary source of musical materials. The idolization of Beethoven and the establishment of the Western art canon in the 19th century makes historical context a conscious parameter of the composer's musical practice. In the 20th century, predominant musical fictions of the Western art canon force restrictive expectations on the composer's practice, resulting works, and their works' means of reproduction.

*Joseph is a student, musician, and artist from Cary, North Carolina. Since arriving at Oberlin in 2011 he has developed a musical and artistic practice primarily through institutional error. While at Oberlin he has practiced ensemble playing in the Oberlin Orchestra, Cut-It Ensemble, OINC, and the rock groups dark image and insane rip. After college, he will continue his arts practices with friends and loved ones.*

## **ADRIAN SINGLETON GEOLOGY, TROMBONE PERFORMANCE**

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Advisors: Steven Wojtal, Geology; Lee Allen, Trombone

Mentor: Amanda Schmidt, Geology

### **Effects of Grain Size, Mineralogy, and Acid-Extractable Grain Coatings on the Distribution of Fallout Radionuclides in River Sediment**

The use of fallout radionuclides (FRNs)  $^{7}\text{Be}$ ,  $^{10}\text{Be}$ ,  $^{137}\text{Cs}$ , and unsupported  $^{210}\text{Pb}$  as riverine sediment tracers assumes uniform and irreversible retention. We evaluated these assumptions in two experiments: 1) Examining effects of grain size, lithology, mineralogy, and grain coating composition on the distribution of FRNs in river sediment samples, and 2) Monitoring FRN retention in samples exposed to fallout. Our findings show that FRN retention is neither uniform nor irreversible, and that FRN concentration is controlled primarily by time-dependent association with grain coatings. These findings likely explain variability of FRN concentration in river networks, exceeding variability due to differences in erosion.

*Adrian graduated in December as a double-degree student, majoring in geology and trombone performance. In his three years working in the geomorphology lab, he worked on examining problems with common techniques that are used to study the movement of soil and sediment across earth's surface. His research culminated with an honors thesis and a journal submission, and he presented his findings for the Geologic Society of America. Adrian comes from Nyack, New York, loves being outside, and is passionate about outdoor and science education.*

## **EMMA STERLING**

### **ANCIENT GREEK, ENGLISH, LATIN**

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Advisors: Kirk Ormand, Classics; Jennifer Bryan, English  
Mentor: Christopher Trinacty, Classics

#### **Don't Look Back: A Retrospective on Orpheus and Eurydice in Augustan Poetry**

In this study of three Augustan poets (Vergil, Horace, and Ovid) and their use of the Orpheus and Eurydice myth, I delved into what each poet takes from the myth and how they transform and alter it to suit their own needs. Each of the three writes in a different genre of poetry, and each derives meaning from the base myth. Each subsequent poet takes from the predecessor's work, alluding to and in some cases criticizing the others' methods. This myth remains popular even today, obtaining its most well-known form from these three poets.

*Emma comes from New Jersey and is a triple major in English, Latin, and ancient Greek. She has been involved in the Oberlin Swing and Blues Society as a local dance coordinator and Title IX coordinator and is the head planner for ObieGame. She spent winter terms traveling to Greece and Italy with Oberlin and spent one winter term reading every Shakespeare play she had never read before. She studied abroad in England for one semester. After Oberlin, Emma hopes to teach at the high school or middle school level.*

## **KATHARINE STEVENS**

### **GREEK LANGUAGE AND LITERATURE**

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Advisor and Mentor: Kirk Ormand, Classics

#### **Covering His Asterisk: Allusions to Catullus in Martial's *Epigrams, Book 9***

The Latin poet Martial is known for his allusive prowess and clever reworkings of texts in snappy epigrams. In this paper, I focus on Book 9 of his Epigrams and investigate how Martial alludes to the (much earlier) elegiac poet Catullus. By evoking Catullus' poems through intertexts both obvious and oblique, Martial uses the Catullus poems to say that which he himself has left unsaid.

*Kate is from Waterbury, Vermont, and has been a member of the varsity cross country and track & field teams since freshman year. She has served as a research assistant to Professors Lee and Trinacty, cotaught winter term intensive Latin and intensive Greek, and is currently the Latin TA. She also studied abroad in Rome at the Centro, completing a project on curse tablets. In her spare time, Kate watches terrible crime television, procrastinates, and listens to Christmas music. Next year she intends to take a gap year to apply to PhD programs in classics.*

## **BRIANA THOMPSON**

### **PSYCHOLOGY**

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Advisor: Al Porterfield, Psychology  
Mentor: Paul Thibodeau, Psychology

#### **The Relationship Between Fat-centric Programming and the Anti-fat Stigma**

This project investigates the relationship between TV viewing patterns, viewer demographics, and support for policies that are likely related to feelings about obesity. Reality competitions, docu-series and similar fat-centric programming claim to promote understanding of participants by bringing this stigmatized group to primetime viewers' attention. My work challenges this commonly accepted notion. This study suggests that a random sample of American's media

consumption patterns predicts an anti-fat prejudice, which may be covertly affecting support for policies aimed at addressing the so-called “obesity epidemic.”

*Briana is a native of Columbia, South Carolina. Working in various campus jobs, OSCA, and within ABUSA has taught her the importance of Ujima (Collective Work) and Umoja (Unity). Her time as a researcher and the work of her brilliant colleagues has taught her that little comes to those who do not have Nia (Purpose) and remember Imani (Faith In Struggle) always. She hopes to continue relating issues of media literacy to health-seeking behavior in minority groups, particularly black youth. She also plans to start an agrarian center back home which cultivates Kuumba (Creativity), Ujamaa (Cooperative Economics), and Kujichagulia (Self-Determination) in her/our children.*

## **ORLY VERMES**

### **ART HISTORY, CREATIVE WRITING**

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Advisor: Bernard Matumbo, Creative Writing

Advisor and Mentor: Erik Inglis, Art History

#### **Black Male: Representation Within the Art Museum**

This research focuses on the Whitney Museum’s 1994 exhibition, *Black Male: Representations of Black Masculinity in Contemporary American Art*. The exhibition sought to display the manners in which contemporary artists have represented black masculinity over the span of 20 years. *Black Male* included more than 70 works by 29 artists, not united by gender or racial identities. The exhibition was met with predominantly negative reviews and provoked much contentious debate. In my research I identify and contextualize the reactions generated by *Black Male*. In doing so I argue that what prevented the exhibition from being seen as a success was the museum’s failure to take into account its own position of power and ability to marginalize.

*In the past year Orly has worked as the program director at WOBC. Since arriving at Oberlin, she has interned at the Whitney Museum of Art, the Frick Collection, and as an assistant to Santa Fe-based photographer Will Wilson. She would like to continue working in the arts after college.*

## **JULIET VINCENTE**

### **ART HISTORY**

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Advisor and Mentor: Christina Neilson, Art History

#### **Re-Gendering the Eden Serpent**

This project seeks to provide a theological and aesthetic analysis of an unusual fresco depicting Adam and Eve in the church S. Maria della Pace in Rome. Artists frequently chose to depict Adam and Eve in fresco church decoration during the Italian Renaissance, and it served to communicate and reflect conceptions of gender norms. In these compositions the Eden serpent, the tempter in the garden, is normally represented naturalistically or as a feminized serpent. In the S. Maria della Pace, this iconography is reversed: the serpent is gendered as masculine. Using this fresco, church doctrine, research of the congregation, artist biography, and the greater culture of Rome in the late-16th century, I seek to explain how this unusual iconography would be particularly suited to its specific circumstances.

*Juliet comes from New York City and is a fourth-year student pursuing honors in art history. She serves as the student representative for the art history department as well as coeditor in chief of the Senior Studio Catalogue. Juliet has been a docent at the Allen Memorial Art Museum and the Weltzheimer-Johnson house since her first year. She is also the research assistant for the curator of Western art and has assisted in the realization of multiple exhibitions in the AMAM. She hopes to pursue further education in art history and a career in the arts.*

## **RYAN WALTON**

### **GREEK LANGUAGE AND LITERATURE**

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Advisor: Kirk Ormand, Classics

Mentor: Christopher Trinacty, Classics

#### **The True Helen: Identity and Characterization in Euripides**

Helen of Troy has been viewed as a paragon of feminine vice and infidelity for millennia. Euripides' play *Helen* attempts to absolve her of the responsibility for the Trojan War by substituting a cloud image at Troy, setting her instead in Egypt. In my research, I contrast previous interpretations of Helen in *The Iliad* and *The Odyssey* with this new, blameless Helen to determine the characteristics that truly define her, and if she can ever be separated from her identity as the face that launched a thousand ships.

*Ryan's fascination with the field of classics was a constant aspect of his life growing up in northern Virginia. He spent four years as a member of the Oberlin College Marching Band and has been a tutor and TA for the classics department since sophomore year. After graduating, he intends to move to the Washington, D.C., area to pursue further classics opportunities.*

## **AMY WEDEL**

### **PSYCHOLOGY**

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Advisor: Patty deWinstanley, Psychology

Mentor: Meghan Morean, Psychology

#### **Vaping to Lose Weight: Predictors of Adult E-cigarette Use for Weight Management**

Prior research indicates that a subset of traditional cigarette smokers is motivated to smoke for weight-related reasons (i.e., to lose or maintain weight). This study evaluates whether a similar relationship can be observed between vaping and weight concerns in adult e-cigarette users. The study also identifies predictors of vaping for weight management from the following factors: age, sex, race, flavor preferences, number of diet attempts, and eating pathology.

*Amy grew up in the San Francisco Bay Area. At Oberlin, she has worked as a research assistant under Professor Nancy Darling and is completing an honors thesis in psychology under Professor Meghan Morean. She is also cochair of the Oberlin Swing Society. After graduation, Amy hopes to pursue research for two years before going on to obtain a PhD in clinical psychology.*

## **NATHANIEL WEHR**

### **BIOLOGY**

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Advisor: Marta Laskowski, Biology

Mentor: Mary Garvin, Biology

#### **Habitat Selection and Activity Patterns Among Wading Birds**

Human destruction of wetlands in the last two centuries has resulted in the destruction of wading bird habitats. Such habitats are crucial because wading birds are important top predators. We studied wading bird habitat selection patterns at Old Woman Creek National Estuarine Research Reserve. We observed wading birds via cameras and active transects in the estuary. We conclude that wading birds do not use tall, dense emergent vegetation; submerged aquatic vegetation does not play a role in habitat selection; and snags are an underrepresented facet in wading bird habitats.

*Nate is from the rural town of Barnesville in southeast Ohio and has been a four-year member of the varsity baseball team at Oberlin. Previously, Nate completed a winter-term project studying wolfecology in northern Minnesota and spent a summer conducting wetland research with Mark Kershner at Kent State University, which served as the basis for his wading bird project. After graduation, Nate intends to pursue a PhD in ecology with the ultimate goal of becoming a college faculty member.*

**LILLIAN WHITE**  
**INDIVIDUAL MAJOR: CULTURAL PERFORMANCE STUDIES**

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Advisor: Caroline Jackson-Smith, Africana Studies and Theater

Mentor: Phyllis Gorfain, English

**All the Stages of Our Lives: Dramatizing Stories with Men in Prison**

Building on four years of volunteer work with Oberlin Drama at Grafton, a Shakespeare-centered prison drama program, this project explores the potential of documentary theater, the work of (re)visionary theater makers, and the work of others who draw on theater's capacity to imagine and enact alternative paradigms. The project focuses on *And Yet We'll Speak*, an original play written, rehearsed, and performed at Grafton Reintegration Center that features oral histories, storytelling, and performance exploration by men at Grafton. The project culminates with a performance at Grafton that encompasses the deep specificity of individual narratives and performatively embodies the cumulative resonance of collected stories.

*Lillian grew up in Darlington, South Carolina. She has spent her time at Oberlin on and offstage in department productions, including Unexpected Journeys, Iphigenia 2.0, The New Electric Ballroom, and Dessa Rose. Favorite projects also include cofounding an all-female experimental ensemble called the Working Group, helping produce the Oberlin History Lessons Project, and writing and performing her first one-woman show, the naming of everyday marvels. Lillian is a firm believer that a thorough understanding of history, on individual and group levels, can shift paradigms.*

## **CONGRATULATIONS TO OUR CONSERVATORY SENIORS, WHO PERFORM THEIR SENIOR RECITALS IN APRIL AND MAY.**

### **APRIL 16, 2016**

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<b>1:30 PM</b>	<b>Daniel Frank, jazz drums</b>	David H. Stull Recital Hall
<b>1:30 PM</b>	<b>Kah Yan Lee, violin</b>	Kulas Recital Hall
<b>3:00 PM</b>	<b>Zane Hill, voice</b>	Kulas Recital Hall
<b>4:30 PM</b>	<b>DeRon McDaniel, voice</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>Althea Bock-Hughes, voice</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>Evan Hines, piano</b>	Warner Concert Hall
<b>8:00 PM</b>	<b>Jake Abramson, sax</b>	Cat in the Cream Coffeehouse

### **APRIL 17, 2016**

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<b>1:30 PM</b>	<b>Olivia Salas, bass</b>	Fairchild Chapel
<b>1:30 PM</b>	<b>Faith Roberts, viola</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>Hannah Dara, viola</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>I-Lin Tsai, piano</b>	Warner Concert Hall
<b>8:00 PM</b>	<b>Nicole Gutman, composition</b>	Central 25

### **APRIL 19, 2016**

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<b>8:00 PM</b>	<b>Ana Nelson, sax</b>	Cat in the Cream Coffeehouse
<b>8:00 PM</b>	<b>Silei Ge, piano</b>	Clonick Hall Recording Studio
<b>8:00 PM</b>	<b>John Burnett, composition</b>	Warner Concert Hall

### **APRIL 20, 2016**

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<b>8:00 PM</b>	<b>Jeanette Chen, harp</b>	David H. Stull Recital Hall
<b>8:00 PM</b>	<b>R Henry Jenkins, violin</b>	Kulas Recital Hall

### **APRIL 21, 2016**

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<b>6:30 PM</b>	<b>Leonard Ranallo, guitar</b>	David H. Stull Recital Hall
<b>8:00 PM</b>	<b>Tim Gemesi, voice</b>	David H. Stull Recital Hall
<b>8:00 PM</b>	<b>Rachel Mills, cello</b>	Kulas Recital Hall

### **APRIL 22, 2016**

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<b>4:30 PM</b>	<b>Brooks Fisher, oboe</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>Sophia Bernitz, violin</b>	Kulas Recital Hall

<b>8:00 PM</b>	<b>Emerson Hunton, jazz drums</b>	David H. Stull Recital Hall
<b>8:00 PM</b>	<b>SR George Jones, trombone</b>	Warner Concert Hall

**APRIL 23, 2016**

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<b>1:30 PM</b>	<b>Dominique Castro, double bass</b>	David H. Stull Recital Hall
<b>1:30 PM</b>	<b>Ryan Toher, clarinet</b>	Kulas Recital Hall
<b>3:00 PM</b>	<b>Noah Sanderson, jazz piano</b>	David H. Stull Recital Hall
<b>3:00 PM</b>	<b>Ann Sauter, voice</b>	Kulas Recital Hall
<b>4:30 PM</b>	<b>Morgan Griffith, voice</b>	Kulas Recital Hall
<b>4:30 PM</b>	<b>Eric Bell, horn</b>	Warner Concert Hall
<b>6:30 PM</b>	<b>Anne Stillwagon, voice</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>Yu Zheng, composition</b>	Warner Concert Hall
<b>8:00 PM</b>	<b>Christine Jay, voice</b>	Kulas Recital Hall

**APRIL 24, 2016**

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<b>1:30 PM</b>	<b>Anna Berntson, violin</b>	Kulas Recital Hall
<b>4:30 PM</b>	<b>Adam Wells, voice</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>Jacob Thompson, cello</b>	Kulas Recital Hall
<b>8:00 PM</b>	<b>Zijun Xiong, clarinet</b>	Kulas Recital Hall

**APRIL 26, 2016**

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<b>6:30 PM</b>	<b>William Nakamura, tuba</b>	David H. Stull Recital Hall
<b>8:00 PM</b>	<b>Matthew Omahan, TIMARA</b>	Clonick Hall Recording Studio

**APRIL 27, 2016**

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<b>8:00 PM</b>	<b>Ruiqi Ren, violin</b>	Kulas Recital Hall
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**APRIL 27, 2016**

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<b>6:30 PM</b>	<b>Giovanni Bertoni clarinet (w harpsichord)</b>	Warner Concert Hall
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**APRIL 29, 2016**

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<b>4:30 PM</b>	<b>Nathaniel Cornell, violin</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>Rachel Halvorson, viola</b>	Kulas Recital Hall
<b>8:00 PM</b>	<b>Eric Krouse, jazz piano</b>	David H. Stull Recital Hall

**APRIL 30, 2016**

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<b>1:30 PM</b>	<b>Michael Vallikappil, voice</b>	Kulas Recital Hall
<b>3:00 PM</b>	<b>Michael Floriano, voice</b>	Kulas Recital Hall
<b>4:30 PM</b>	<b>Perri DiChristina, voice</b>	David H. Stull Recital Hall
<b>4:30 PM</b>	<b>Hayley Jensen, clarinet</b>	Kulas Recital Hall
<b>4:30 PM</b>	<b>Alex Tasker, percussion</b>	Warner Concert Hall
<b>4:30 PM</b>	<b>Alex Tasker, percussion</b>	Warner Concert Hall
<b>6:30 PM</b>	<b>Micaela Aldridge, voice</b>	Kulas Recital Hall
<b>6:30 PM</b>	<b>Haoran Mi, piano</b>	Warner Concert Hall
<b>8:00 PM</b>	<b>Laura Spector, piano</b>	Warner Concert Hall

**MAY 1, 2016**

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<b>3:00 PM</b>	<b>Meiling Lin, piano</b>	Warner Concert Hall
<b>4:30 PM</b>	<b>Austin Lewellen, double bass</b>	David H. Stull Recital Hall
<b>4:30 PM</b>	<b>Melissa Kravets, French horn</b>	Warner Concert Hall
<b>6:30 PM</b>	<b>Katherine Early, voice</b>	David H. Stull Recital Hall
<b>6:30 PM</b>	<b>Yiran Chen, violin</b>	Kulas Recital Hall
<b>8:00 PM</b>	<b>Thomas English, bassoon</b>	Kulas Recital Hall
<b>8:00 PM</b>	<b>Allison Freeman, piano</b>	Warner Concert Hall

**MAY 3, 2016**

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<b>6:30 PM</b>	<b>Daveed Buzaglo, voice</b>	David H. Stull Recital Hall
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**MAY 5, 2016**

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<b>6:30 PM</b>	<b>Shreya Sachdev, violin</b>	David H. Stull Recital Hall
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**MAY 6, 2016**

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<b>6:30 PM</b>	<b>Daniel Spearman, jazz piano</b>	Cat in the Cream Coffeehouse
<b>6:30 PM</b>	<b>Caitlin Mehrrens, harp</b>	David H. Stull Recital Hall

