



resilience

2017
Haas Scholars
Undergraduate
Research
Conference

UNIVERSITY
OF CALIFORNIA,
BERKELEY

JANUARY 12–13
Conference
Bancroft Hotel

Photography Exhibits:

*Iranian Saffron Farming
in Transition*
Helia Bidad

*Seed Sovereignty as
Resistance and Reparation
in Colombia*
Juan Manuel Vélez

January 13 Reading:

*The Worst of the Worst and
the Bildung of a Recidivist*
Clint Terrell

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WELCOME to the 2017 Haas Scholars Undergraduate Research Conference! Our theme celebrates the many forms of resilience reflected in the scholars and their research. Of diverse ages, races and nationalities, our 2017 cohort has overcome many challenges—incarceration and need, homelessness and immigration—to thrive in UC Berkeley's challenging setting during increasingly volatile political times. Their research explores the resilience of centuries-old yet still relevant artifacts and literature, of cells and organisms that defend themselves against attack, of the brain in its constant learning, of environments that rebound when protected, and of vulnerable communities worldwide that have found creative ways to survive, resist, and seek change.

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Clint Terrell

Design by Nancy Carroll

THURSDAY, JANUARY 12

Great Hall, Bancroft Hotel

8:45–9:15 **Welcome and Coffee**

9:15–10:15 **The Brain and Perception**

Chair: Mark D'Esposito, Psychology

Ahmad Al-Zughoul (Cognitive Science and Molecular & Cell Biology major)

The Role of Acetylcholine and Dopamine in Perception and Working Memory

Faculty Sponsor: Mark D'Esposito, Psychology

Justin Baik (Physics major)

Optogenetic Control in Freely Behaving Bats (Rousettus Aegyptiacus)

Faculty Sponsor: Michael Yartsev, Neuroscience

10:30–12:00 **Buried Narratives: Piecing Together Fragments of History**

Chair: Emily Thornbury, English

Olivia Graves (English and Classical Civilizations major)

Decoding the 'Fah Flor': Archaeological Discovery and the De-Mystification of a Lost Metaphor in Beowulf

Faculty Sponsor: Emily Thornbury, English

Ramón de Santiago (Art History and Art Practice major)

Across Three Oceans: Shipwrecks as Early Modern Globalism

Faculty Sponsor: Lisa Trever, Art History

Clint Terrell (English major)

Worst of the Worst: Changing the Prison Narrative

Faculty Sponsor: Hertha Sweet Wong, English

12:15–1:15 **Lunch, Great Hall, Bancroft Hotel**

1:30–3:00 **Revealing Realities Around the Globe**

Chair: Jake Kosek, Geography

Helia Bidad (Society & Environment major/ Geospatial Information Science & Technology minor)

Shifting Traditions: Perspectives of Saffron Farmers in the Khorasan Province of Iran on Climate Change and Technological Development

Faculty Sponsor: Kate O'Neill; Environmental Science, Policy & Management

Juan Manuel Vélez (Geography, Interdisciplinary Studies, and Society & Environment major/ Global Poverty & Practice and Food Systems minor)

Seeds of Reconciliation: Seed Sovereignty as a Form of Reparation for Victims of War in Colombia

Faculty Sponsor: Jake Kosek, Geography

Winnie Itago (Environmental Economics & Policy major/ Global Poverty & Practice minor)

Divergent Policies, Divergent Trajectories? The Impact of Established Political Systems on Oil and Gas Institutions in Ghana and Uganda

Faculty Sponsors: Michael Watts, Geography and Robin Marsh, ISSI

3:15–4:45 **Negotiating a Worldview Through Culture, Ideology, and Choice**

Chair: Laurie Wilkie, Anthropology

Allyn Benintendi (Anthropology major)

Freezing the Future: Oocyte Cryopreservation in Northern California

Faculty Sponsor: Laurie Wilkie, Anthropology

Jorge David Mancillas (Sociology major)

Dying to Survive: Negotiating with Early Death and the Social Reproduction of Gang Violence

Faculty Sponsor: Cristina Mora, Sociology

Meaghan Allen (English major/Anthropology minor)

The Mysteries of Criticism in Antebellum America's Sensationalistic Pop Culture

Faculty Sponsors: David Henkin, History and Samuel Otter, English

FRIDAY, JANUARY 13

Great Hall, Bancroft Hotel

10:00–10:30 **Welcome and Coffee**

10:30–12:00 **Looking in the Mirror: Perceptions as a Reflection of Modern America**

Chair: Rodolfo Mendoza-Denton, Psychology

Nicole Rankin (Sociology major)

The Gender Wage Gap: A Moral or Economic Concern?

Faculty Sponsor: Laura Kray, Haas School of Business

Kimberly Martin (Psychology major/Dance & Performance Studies minor)

Perceptions of Historically Black College and University Prestige: Implications for Racial Stereotypes

Faculty Sponsor: Rodolfo Mendoza-Denton, Psychology

Julián Ponce (Public Health major/Public Policy minor)

Sugar-Sweetened Beverage as Well as Tap Water Consumption and Perceptions Among Latino/as in Kings County

Faculty Sponsor: Kristine Madsen, Public Health

12:00–1:00 **Lunch, Great Hall, Bancroft Hotel**

1:00–2:30 **It's the Little Things in Life**

Chair: Russell Vance, Molecular & Cell Biology

Danny Lee (Microbial Biology and Public Health major)

ATP Release by Gram-Negative Bacteria and Its Role in Cell Wall Remodeling

Faculty Sponsor: Sangwei Lu, Public Health

Lucian DiPeso (Molecular & Cell Biology major)

Uncoupling Pyroptosis from Cell Lysis

Faculty Sponsor: Russell Vance, Molecular & Cell Biology

Victor Chen (Microbial Biology major)

Metabolite Production by Interspecies Interactions in Actinomycetes and Root Nodule Bacteria

Faculty Sponsor: Matt Traxler, Plant & Microbial Biology

2:45–4:15 **Forgotten Places**

Chair: Waldo Martin, History

Rosario Torres (Anthropology major)

Using Ethnobotanical Materials to Explore Native Californian Land Practices Along the Santa Cruz Coast

Faculty Sponsor: Kent Lightfoot, Anthropology

Michelaina Johnson (History major/Conservation & Resource Studies and Spanish minor)

Evading Dam-Nation: Land Use History of the Lower Cosumnes River Watershed, ca. 1820–2016

Faculty Sponsor: Kerwin Klein, History

Chance Grable (History major)

From Steel Mills to Steel Bars: Historicizing the Carceral State in Deindustrialized Rust Belt America

Faculty Sponsor: Waldo Martin, History

4:30–5:15 **Author Reading** Clint Terrell reads *The Worst of the Worst and the Bildung of a Recidivist*

Moderator: Hertha Sweet Wong, English

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A SENIOR CAPSTONE EXPERIENCE FOR ALL MAJORS

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