



**2018
Haas Scholars
Undergraduate
Research
Conference**

**UNIVERSITY
OF CALIFORNIA,
BERKELEY**

**JANUARY 11–12
FACULTY CLUB**

***Against
the
Wind
of
Conformity***

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WELCOME to the 2018 Haas Scholars Undergraduate Research Conference! Our theme, drawn from one scholar's project on alternative band Primus, reflects the multiple ways in which the scholars have pushed forward against "the wind of conformity." In their personal lives, they have defied many obstacles to achieve excellence at UC Berkeley. In their work, they have questioned social institutions and hierarchies, suggested new interpretations of art and literature, proposed novel explanations for scientific phenomena, and offered new solutions for technical dilemmas. By challenging conventional wisdom in their respective fields, they have contributed essential new insights.

PHOTOGRAPHY EXHIBITS:

Letters Are Wounds: Manuscript Libraries in England
Rieson Blumer

Talpa de Allende: Rural Modernity
Adrián García Hernández,
Dylan MacGregor Bush

Sobre Tierra Extraterrestre
Sergio Méndez-Torres

Painted Ruins of Ancient Peru
Gabiella Wellons

JANUARY 12 Reading:

Selection from the novel
A Time for Carving
Sergio Méndez-Torres

THURSDAY, JANUARY 11

Heyns Room, Faculty Club

8:30–9:00 Welcome and Coffee

9:00–10:30 Small Scales, Big Differences

Chair: Richard Harland, Molecular & Cell Biology

Geun Ho Ahn (Electrical Engineering & Computer Sciences major, Bioengineering minor)

Strain Engineering of Two Dimensional Transition Metal Dichalcogenides

Faculty Mentor: Ali Javey, Electrical Engineering & Computer Sciences

Albert Kim (Microbial Biology major)

Investigating Autism Spectrum Disorder Using CRISPR/Cas9 Genome Editing in Xenopus Tropicalis

Faculty Mentor: Richard Harland, Molecular & Cell Biology

Maritza Cárdenas (Molecular & Cell Biology major, Creative Writing Minor)

Analysis of Memory B Cell (MBC) Response to Zika Virus Infection in Dengue Endemic Nicaragua Using the Multi-Color FluoroSpot (MCF) Assay

Faculty Mentor: Eva Harris, Public Health

10:45–12:15 Transformative Justice

Chair: Karen Chapple, City & Regional Planning

Diana Lutfi (Interdisciplinary Studies Field major)

The Permissibility of Using Coercion in Pediatric Healthcare

Faculty Mentor: Jodi Halpern, UCB-UCSF Joint Medical Program

Allegra Saggese (Environmental Economics & Policy and Rhetoric Major)

Understanding Land and Value: The Cost and Benefits of the Oxford Tract in an Ecological Economics Framework

Faculty Mentor: Alastair Iles, Environmental Science, Policy & Management

Adrián García Hernández (Sustainable Environmental Design and Forestry & Natural Resources major)

Programa Pueblos Mágicos: A Comparative Study of Equity and Social Inclusion in Talpa de Allende, Mexico

Faculty Mentor: Karen Chapple, City & Regional Planning

12:30–1:30 Lunch, Heyns Room, Faculty Club

1:45–3:15 Transformative Resistance

Chair: Rodolfo Mendoza-Denton, Psychology

Brandon Shalchi (Interdisciplinary Studies Field major)

Perceived Fairness of Court Rulings in Triadic Racial Conditions

Faculty Mentor: Rudy Mendoza-Denton, Psychology

Shelby Mack (American Studies major)

#BlackGirlsMatterToo: Understanding the Development of Black Female Enrichment Programs in Oakland CA

Faculty Mentor: Nikki Jones, African American Studies

Mark Johnson (Anthropology major)

Decolonizing the Bancroft Library

Faculty Mentor: Jun Sunseri, Anthropology

3:30–4:30 Inscriptions from the Past: Murals and Manuscripts

Chair: Lisa Trever, History of Art

Rieson Blumer (English major, History minor)

Heavenly Heritage, A Catholic Medieval Text Reprinted in the Sixteenth Century

Faculty Mentor: Jennifer Miller, English

Gabiella Wellons (History of Art major)

Ancient "Graffiti" and Emulation of Moche Mural Wall Paintings

Faculty Mentor: Lisa Trever, History of Art

FRIDAY, JANUARY 12

Heyns Room, Faculty Club

8:30–9:00 Welcome and Coffee

9:00–10:30 The Loop

Chair: Richard Ivry, Psychology

Heather Kornblum (Psychology major)

High Inequality, Low Creativity? Examining the Effects of Income Inequality on Regulatory Focus

Faculty Mentor: Serena Chen, Psychology

Jeremy Teman (Applied Mathematics major)

Exploring the Relationship Between Motor Preparation and Initiation

Faculty Mentor: Richard Ivry, Psychology

Alissa Stover (Psychology major)

Sensing Our Bodies and Our World: Motor Control in a Changing Environment

Faculty Mentor: Richard Ivry, Psychology

10:45–12:15 Investigating Institutions

Chair: Laurie Wilkie, Anthropology

Nicholas Eskow (Anthropology major)

"Sympathy for the Loss of a Comrade": Black Citizenship and the 1873 Fort Stockton "Mutiny"

Faculty Mentor: Laurie Wilkie, Anthropology

Sara Ellis (Psychology major, Global Poverty & Practice minor)

Reducing Institutional Violence: Environmental Risk Factors in Psychiatric Hospitals

Faculty Mentor: Jennifer Skeem, Social Welfare

Susan Kim (Geography major, Global Poverty & Practice minor)

Mental for Mental Health Jails: A Critical Geography and Political Economy of Mental Health Jail Construction in California

Faculty Mentor: Victoria Robinson, Ethnic Studies and American Cultures

12:15–1:15 Lunch, Heyns Room, Faculty Club

1:15–2:45 Out of Bounds: Existential Exploration Through Art

Chair: Michael Lucey, Comparative Literature and French

Sergio Méndez-Torres (English major, Creative Writing minor)

Flickering Presence: The Precarious Networks of Existence in Ben Lerner's 10:04

Faculty Mentor: Lyn Hejinian, English

Adonis Brooks (Comparative Literature and Film major)

"The God is a Self After All": An Analysis on the Beat Poet-Shamans

Faculty Mentor: Michael Lucey, French and Comparative Literature

Matthew Willett (American Studies major)

Beyond the Weird: A Cultural Analysis of the Album Sailing the Seas of Cheese by Primus

Faculty Mentor: Scott Saul, English

3:00–3:45 Author Reading

Sergio Méndez-Torres reads selections from his novel *A Time for Carving*

Moderator: Lyn Hejinian, English

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