University of California, Berkeley
Office of Undergraduate Research
Haas Scholars Program
5 Durant Hall #2940
Berkeley, CA 94720-2940

2014 Haas Scholars Undergraduate Research Conference

Luminescence

2014 Haas Scholars Undergraduate Research Conference

UNIVERSITY OF CALIFORNIA, BERKELEY

JANUARY 16–17
Conference
The Faculty Club at UC Berkeley
Howard Room

JANUARY 17
4:30–6:30
Haas Scholars Alumni Reunion
The Faculty Club at UC Berkeley
Heyns Room and Patio

hsp.berkeley.edu
Other scholars are working with this theme in a more investigatory manner, illuminating as they are ongoing.

Yet regardless of major or field, country or continent, all of the Haas Scholars have experienced flashes of insight that have both clarified aspects of their research and shed light on what is still obscured.

We welcome you to the 2013–2014 conference and invite you to engage with these intellectual pursuits in progress—endeavors as illuminating as they are ongoing.

---

THURSDAY, JANUARY 16
Howard Room, The Faculty Club, UC Berkeley

1:00–2:30 Seeing the World
Discussion: Eve Sweetser, Linguistics
Ayden Parish (Linguistics)

Conceptual Metaphor in Describing Transgender Identities
Sponsor: Eve Sweetser, Linguistics

S. Zayed Enam (Electrical Engineering and Computer Sciences)
Neurally Inspired Self-Organizing Maps for Image Coding
Sponsor: Bruno Olshausen, Redwood Center for Theoretical Neuroscience

Zoe Pollak (English)
The World in the Globe of the Eye: Reading Marilynne Robinson’s Housekeeping as a Reflection on Henry Thoreau’s Walden
Sponsor: Robert Hass, English

2:45–4:15 Our Sense of Place
Discussion: Rosemary Joyce, Anthropology

Patrick Donnelly-Shores (Conservation and Resource Studies)
Tortoises, Sunflowers, and Subsidies: Large-Scale Solar Energy Policy in California and Andalucia
Sponsor: Alastair Iles; Environmental Science, Policy, and Management

Sikai Song (Integrative Biology; Public Health)
Indigenous Knowledge and Bio-Efficacy of Medicinal Plant Use: An Ethnobotanical Study of Sindulpokholok, Nepal
Sponsor: Thomas Carlson, Integrative Biology

Judy Scharf (Interdisciplinary Studies Field)
Crossing Borders: Youth, Migration, and Mortality
Sponsor: Leti Volyp, Berkeley Law

4:30–5:30 Genetic Innovations
Discussion: Sangwei Lu, Public Health

Robert Chen (Bioengineering; Materials Science and Engineering)
MiCodes: Enabling Library Screens with Microscopy by Connecting Genotypes to Observable Phenotypes
Sponsor: John Dueber, Bioengineering

Laura Carolina Rodriguez-Adjunta (Molecular and Cell Biology)
Characterization of Fine Genetic Regulatory Mechanisms of a Bacterial sRNA in the Virulence of a Foodborne Pathogen: Salmonella Typhimurium
Sponsor: Fenyong Liu, Public Health

FRIDAY, JANUARY 17
Howard Room, The Faculty Club, UC Berkeley

8:30–9:00 Welcome and Coffee

9:00–10:30 Interpreting the Physical
Discussion: Laurie Willie, Anthropology

Jess Gayneville Bailey (History of Art)
Spoken Word as Figure: Visual Iconographies of Nebutsu in Medieval Japan
Sponsor: Gregory Levine, History of Art

Leah Grant (Anthropology; History)
An Archaeology of Food, Race, and Gender at Fort Davis, Texas
Sponsor: Laurie Willie, Anthropology

Sara Sol Linck-Frenz (Comparative Literature)
Collapsing the Frame: The Moving Body as a Site for Social (De)construction
Sponsor: SanSan Kwan; Theater, Dance, and Performance Studies

10:45–11:45 Environmental Innovations
Discussion: Ken Sauer, Chemistry

Brendon McNicholas (Chemistry)
Electrochemical Characterization of First-Row Transition Metal Carrole Complexes for Use as Oxygen Reduction Catalysts
Sponsor: John Arnold, Chemistry

Christina Marie Hamilton (Earth and Planetary Science; Marine Science)
Automation of Carbon Flux Explorers for the Study of the Ocean Biological Carbon Pump
Sponsor: Jim Bishop; Earth and Planetary Science, Marine Geochemistry

12:00–1:00 Lunch, Heyns Room, The Faculty Club, UC Berkeley

1:15–2:45 Exposing Silences
Discussion: Kathryn Abrams, Berkeley Law

Thatcher Combs (Sociology)
Should There Be a “T” in the Silencing of the “T” in the LGBT Movement
Sponsor: Raka Ray, Sociology

Rachel Gottfried-Clancy (Geography)
Geographies of Justice: Reconciliation and the Role of Transitional Justice in Brazil
Sponsor: Kathryn Abrams, Berkeley Law

Yanuye (Adelina) Wang (Economics; Applied Mathematics)
Income Tax Reform, the Evolution of Inequality, and the Boost of Domestic Demand—In Search of a Sustainable Economic Growth Model
Sponsor: Emmanuel Saez, Department of Economics

3:00–4:30 Equity and Ethics in Public Health
Discussion: Victoria Robinson, Ethnic Studies

Minda Murphy (Anthropology)
HIV, Gender, Belonging, and the State: Reflections from Post-Conflict Northern Uganda
Sponsor: Lawrence Cohen, Anthropology

Kaitlin Kimmel (Interdisciplinary Studies Field Major)
Stories from the Heart: Biosocial Narratives of Adults with Complex Congenital Heart Disease
Sponsor: Susan Schwelk, English and Disability Studies

Muska Fazlat (Public Health)
Midwifery Practices in Afghanistan: The Influence of Purdah on Maternal Health
Sponsor: Malcolm Potts, Public Health; Lawrence Cohen, Anthropology; Raka Ray, Sociology

4:30–6:30 Haas Scholars Alumni Reunion, Heyns Room and Patio, The Faculty Club, UC Berkeley