

University of California, Berkeley

Office of Undergraduate

Research and Scholarships

Haas Scholars Program

2414 Dwinelle Hall #2940

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2016 Haas Scholars  
Undergraduate  
Research Conference



1-43281-13403-40-A

# Palimpsest: Insights. Emerging

*Haas Scholars*  
ROBERT & COLLEEN

# Palimpsest: Insights. Emerging

2016  
Haas Scholars  
Undergraduate  
Research  
Conference

UNIVERSITY  
OF CALIFORNIA,  
BERKELEY

JANUARY 14–15  
Conference

The Faculty Club  
at UC Berkeley

Exhibit:  
*Embeddings of  
Complete Graphs*  
Sophia Elia

Performance:  
*Kulobi Dance from  
the Southern Region  
of Tajikistan*  
Natalie Rutiezer

[hsp.berkeley.edu](http://hsp.berkeley.edu)

**WE WELCOME YOU**  
to the 2016 Haas Scholars Undergraduate Research Conference! Our theme draws on the metaphor of the palimpsest, an ancient document in which newer writing is added over partially erased remnants of earlier writing. While acknowledging the influence of their mentors and past generations of scholars, this year's Haas Scholars have boldly taken on the challenge of adding new insights to fields ranging from mathematics to literature, from Tajik dance and positive emotions to the struggle for social justice, and from explorations of our past to science at the cutting edge. We hope the fruit of this research will provide the next generation of Haas Scholars with a smooth and opalescent surface upon which their own insights may emerge.

### At the Conference

#### JANUARY 14–15

**Exhibit:**  
*Embeddings of Complete Graphs*  
Sophia Elia

#### JANUARY 15

**Performance:**  
*Kulobi Dance from the Southern Region of Tajikistan*  
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Cover: detail from *Codex Guelferbytanus Weissenburgensis*, 64 folio, 280 recto

Design by Nancy Carroll

## THURSDAY, JANUARY 14

Howard Room, The Faculty Club, UC Berkeley

- 8:30–9:00 **Welcome and Coffee**
- 9:00–10:00 **Women's Academic Achievement and Collective Creativity**  
Chair: Thomas J. Carlson, Integrative Biology  
**Mehrnaz Ahrar** (Psychology/Integrative Biology)  
*Where Are All the Women? Exploring the STEM Gender Gap via Social Psychology Methodology*  
Faculty Sponsors: Thomas J. Carlson/Gemma Niermann, Integrative Biology
- 10:15–11:45 **Catalyzing Movements and Interactions**  
Chair: Judith P. Klinman, Chemistry/Molecular & Cell Biology  
**Andy Nguy** (Molecular & Cell Biology/English)  
*A Glimpse of the Protein Motions in a Model Hydrogen Tunneling Enzyme*  
Faculty Sponsor: Judith P. Klinman, Chemistry/Molecular & Cell Biology
- Juliana Wu** (Molecular Environmental Biology)  
*Optimizing Nutrient Interactions in a Broccoli-Fava Intercropping System*  
Faculty Sponsor: Céline Pallud, Environmental Science, Policy & Management
- Casey Racicot** (Anthropology)  
*Shifting Sensescapes: The Aftermath of the Richmond Chevron Fire*  
Faculty Sponsor: Charles Briggs, Anthropology
- 12:00–1:00 **Lunch, Heyns Room, The Faculty Club, UC Berkeley**  
**Welcoming Remarks: Catherine Koshland, Vice Chancellor for Undergraduate Education**
- 1:15–2:45 **Communities in Transformation: Mind, Power, Space**  
Chair: Malo André Hutson, City & Regional Planning  
**Tyri Kayshawn** (Interdisciplinary Studies/Spanish)  
*The Cognitive Transformation of the Striving Black Brothers Coalition*  
Faculty Sponsor: Nikki Jones, African American Studies
- Jesús Vásquez-Cipriano** (Interdisciplinary Studies)  
*Toward Latino Autonomy: A Case Study at UC Berkeley*  
Faculty Sponsor: Malo André Hutson, City & Regional Planning
- Mimi Sergent-Leventhal** (Sociology/Linguistics)  
*Habitus and Transition for the Private School Elite*  
Faculty Sponsor: John Lie, Sociology
- 3:00–4:30 **Constructing Space and Identity**  
Chair: Mark Peterson, History  
**Charlotte Hull** (History/English Literature)  
*Becoming Atlantic: A Spatial History from 17th Century Martha's Vineyard*  
Faculty Sponsor: Mark Peterson, History
- Connor Clark** (History/American Studies)  
*"What-a You Know About Dat, Eh?" Race and Respectability in the Italian American Vaudeville Theatre, 1880–1920*  
Faculty Sponsor: David Henkin, History
- Minda Bautista** (Asian American & Asian Diaspora Studies)  
*From the Fields to the Pool Halls: The Plight of the Manong*  
Faculty Sponsor: Lok Siu, Ethnic Studies

## FRIDAY, JANUARY 15

Heyns Room, The Faculty Club, UC Berkeley

- 9:45–10:15 **Welcome and Coffee**
- 10:15–11:45 **Power, Prosociality, and Planarity**  
Chair: Professor Serena Chen, Psychology  
**Rhonda Armstrong** (Psychology/Social Welfare)  
*Rising to the Top: The Effect of Rejection Resiliency on Power Attainment*  
Faculty Sponsor: Serena Chen, Psychology
- Jay Gupta** (Molecular & Cell Biology/Psychology)  
*Elucidating the Neural Structures and Mechanisms that Mediate the Prosocial Response in Rats*  
Faculty Sponsor: Daniela Kaufer, Integrative Biology
- Sophia Elia** (Physics/Mathematics)  
*Regular Embeddings of Complete Graphs*  
Faculty Sponsor: Bob Jacobsen, Physics
- 12:00–12:15 **Performance: Kulobi Dance from the Southern Region of Tajikistan**  
Natalie Rutiezer
- 12:15–1:30 **Lunch, Great Hall and Heyns Room**
- 1:30–3:00 **Community, Identity, and Practices**  
Chair: SanSan Kwan, Theater, Dance & Performance Studies  
**Nalya Rodriguez** (Ethnic Studies/Sociology)  
*Dislocation: An Intergenerational Analysis of Political Gang Violence in El Salvador and Los Angeles*  
Faculty Sponsor: Victoria Robinson, American Cultures/Ethnic Studies
- Kaylee Yoshii** (History/Spanish/Education)  
*A Half-Century of Food Rationing in Cuba: A Historical Analysis of the Libreta*  
Faculty Sponsor: Elena A. Schneider, History
- Natalie Rutiezer** (Near Eastern Studies/Dance)  
*Expression, Performance, and Ritual: An Exploration of Dance in Tajikistan*  
Faculty Sponsor: SanSan Kwan, Theater, Dance & Performance Studies
- 3:15–4:45 **Mourning Becomes Ekphrastic**  
Chair: Lisa C. Pieraccini, Classics  
**Karen MacLaughlin** (Classical Languages)  
*Bifurcated Hope: Stoic Suicide and Christian Martyrdom in First Century Rome*  
Faculty Sponsor: Trevor Murphy, Classics
- Marvin Morris** (Classical Civilizations)  
*First in Flight: A Comprehensive Study of Etruscan Winged Demons*  
Faculty Sponsor: Lisa C. Pieraccini, Classics
- Rikki-Nikol Anderson** (English)  
*Picturing Reality: An Examination of Nabokov's Ekphrastic Photographs*  
Faculty Sponsor: Eric Naiman, Comparative Literature/Slavic Languages & Literatures

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A SENIOR CAPSTONE EXPERIENCE FOR ALL MAJORS