

Welcome! In choosing their conference theme, the 2018-2019 Haas Scholars, the program's 20th cohort, celebrates this important milestone by echoing the central graphic used by the very first cohort. They build on this proud history and the established foundation of knowledge in each field, but also dare to question, reimagine, and even disrupt, contributing essential new understandings and solutions to a world that desperately needs them.

PHOTOGRAPHY EXHIBITS:

The Ruins of Marin
Sebastian Herics

Inside the Lab
Andre Lai

al-Balqa, Jordan
Mathew Madain

Moment, Memory, and Research
Lulu Matute

*Women of Etruria:
Silent No More*
Micaela Shonafelt

Living with Loss in Ciudad Juárez
Raúl Varela

FILM SCREENING JANUARY 18

*Fighting to Not be Forgotten:
25 Years of Feminicides
in Ciudad Juárez*

THURSDAY, JANUARY 17

Great Hall, Bancroft Hotel

- 8:30–9:00 **Welcome and Coffee**
- 9:00–10:30 **Image, Power, and Reality: Romantic Relationships, Sex Work, and the Silenced Women of Roman History**
Chair: Iris Mauss, Psychology
Grace Allison (Psychology major)
Perceiving is Believing: Impact of Partner Perceptions of Suppression in Romantic Relationships
Faculty Mentor: Iris Mauss, Psychology
Raven Deverux (Sociology major)
Sex Work and Labor Power
Faculty Mentor: Mary Kelsey, Sociology
Micaela Shonafelt (Classical Civilizations major)
Silent No More: Giving Voice to the Women of Etruria
Faculty Mentor: Lisa Pieraccini, History of Art
- 10:45–12:15 **Uncovering Communal Memories: The Great War, the Cold War, and Femicide**
Chair: Margaretta Lovell, History of Art
Mathew Madain (History, Global Studies, and Near Eastern Studies major)
Minorities in the Crossfire: World War I and the Crisis of Jordan's Christians
Faculty Mentor: Maria Mavroudi, History and Classics
Sebastian Herics (American Studies major)
Missile Memories: Preservation and the Ethics of Narrative
Faculty Mentor: Margaretta Lovell, History of Art
Raúl Varela (Anthropology major)
Fighting to Not Be Forgotten: 25 Years of Feminicides in Ciudad Juárez
Faculty Mentor: Raymond Telles, Ethnic Studies
- 12:30–1:30 **Lunch, Great Hall, Bancroft Hotel**
- 1:45–2:45 **From Lab to Clinic: Small Devices for Large Impact**
Chair: Ana Arias, Electrical Engineering & Computer Sciences
Andre Lai (Bioengineering major, Electrical Engineering & Computer Sciences minor)
A High-Throughput Microfluidic Device for Single Cell Isolation and Analysis
Faculty Mentor: Aaron Streets, Bioengineering
Jasmine Jan (Bioengineering major, Electrical Engineering & Computer Sciences minor)
Printed Optoelectronic Devices for Point-of-Care Biomarker Sensing
Faculty Mentor: Ana Claudia Arias, Electrical Engineering & Computer Sciences
- 3:00–4:30 **Resisting Criminalization: Brown Bodies, Carcerality, and Border Politics**
Chair: Victoria Robinson, Ethnic Studies and American Cultures
Lissa García (Ethnic Studies major, Education minor)
Border Performativity and Transfronterizx Students in the Tijuana-San Diego Border Region
Faculty Mentor: Cristina Mora, Sociology
Nancy Rubio (Chicano/a Studies major)
Programming without Policing: Latinx Youth and Alternative Education in Watsonville, CA
Faculty Mentor: Victoria Robinson, Ethnic Studies and American Cultures
Lulu Matute (American Studies major)
Mothers, Sisters as Commodities for American Free Trade: Forced Expulsion and Criminalization of Honduran Women and Girls
Faculty Mentor: Victoria Robinson, Ethnic Studies and American Cultures

FRIDAY, JANUARY 18

Great Hall, Bancroft Hotel

- 10:00–10:30 **Welcome and Coffee**
- 10:30–12:00 **Exploring Our World from Large to Small: Dark Matter and Quantum Materials**
Chair: Karl van Bibber, Nuclear Engineering
Dan Ferenc-Segedin (Physics major)
Phase Coexistence in Multiferroic BiFeO₃
Faculty Mentor: Ramamoorthy Ramesh, Physics
Caolan John (Physics major)
Controlling Magnetic and Electronic Properties of Intercalated Transition Metal Dichalcogenides
Faculty Mentor: James Analytis, Physics
Nicholas Rapidis (Physics major)
A Search for Cosmological Signatures of the Axion
Faculty Mentor: Karl van Bibber, Nuclear Engineering
- 12:00–1:00 **Lunch, Great Hall, Bancroft Hotel**
- 1:00–2:00 **Understanding Causes, Imagining Solutions: Roots of the Rural Opiate Epidemic and K-12 Ethnic Studies Experiences and Possibilities**
Chair: David Harding, Sociology
Andrea Ramírez (Sociology major, Chicano/a Studies minor)
Blossoming in Knowledge Through Understanding Suppressed Roots
Faculty Mentor: David Harding, Sociology
Rebecca Forbes (American Studies major)
Understanding the Roots of Opioid Abuse in Small Town Tuolumne County
Faculty Mentor: Nathan Sayre, Geography
- 2:15–3:15 **Solving the Brain's Mysteries: Neural Mechanisms and Health Challenges**
Chair: Yang Dan, Molecular & Cell Biology
Mohammad Saffari Doost (Integrative Biology major)
Identification of Neural Circuits Coordinating Sleep and Cardiovascular Regulation
Faculty Mentor: Yang Dan, Molecular & Cell Biology
Caleb Choy (Molecular & Cell Biology major)
The Role of CD44 and Src Kinases on Aggressive Motility in Glioblastoma
Faculty Mentor: Sanjay Kumar, Bioengineering
- 3:30–4:30 **Bridging Past and Present Practices: from Ohlone Fish Harvesting to Haitian Transnational Migration**
Chair: Kent Lightfoot, Anthropology
Ariadna Gonzalez (Anthropology major)
Ancient Fisheries of the San Francisco Bay Area: Perspectives from the West Berkeley Shellmound
Faculty Mentor: Kent Lightfoot, Anthropology
Celene Bolaños (Development Studies and Latin American Literatures major, Food Systems minor)
Haitian Migration Across the Americas: Patterns, Trajectories and Implications
Faculty Mentor: Claudia Carr, Environmental Science, Policy & Management
- 4:45–5:30 **Film Screening: Fighting to Not Be Forgotten: 25 Years of Feminicides in Ciudad Juárez**
Raúl Varela (Anthropology major)
Moderator: Raymond Telles, Ethnic Studies

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HaasScholars UNIVERSITY OF CALIFORNIA BERKELEY

A SENIOR CAPSTONE EXPERIENCE FOR ALL MAJORS