2013 SMART Research Projects

Vibrio cholerae Design of Siderophores
Department of Chemistry
Benjamin Allred, Graduate Mentor
Christian Villanueva, Undergraduate Mentee
Kenneth Raymond, Faculty Adviser

Comparing Methods for Extraction of High Quality Genetic Material from Preserved Human White Blood Cell Samples
School of Public Health
Sarah Daniels, Graduate Mentor
Brenda Yee, Undergraduate Mentee
Luoping Zhang, Faculty Adviser

Public and Private Provision of Primary Healthcare Services in Chile: A Qualitative Approach
School of Public Health
Soledad Martinez-Gutierrez, Graduate Mentor
Alexis Captanian, Undergraduate Mentee
William Dow, Faculty Adviser

Molecular Insights into Viral DNA Degradation by a Bacterial Immune System
Department of Chemistry
Samuel Sternberg, Graduate Mentor
Chantal Guegler, Undergraduate Mentee
Jennifer Doudna, Faculty Adviser

Comparative Histories of Mexico-U.S. Migration: How Two Communities Confront Globalization
Department of Sociology
Abigail Andrews, Graduate Mentor
Johanna Torres, Undergraduate Mentee
Raka Ray, Faculty Adviser

Graphene Calisthenics: Modeling the Polymer-Induced Graphene Stretching for Next Generation Electronics
Department of Physics
Kacey Meaker, Graduate Mentor
Mandy Huo, Undergraduate Mentee
Michael Crommie, Faculty Adviser

Bones of Contention: The War Dead and the Making of Modern China
Department of History
Linh Vu, Graduate Mentor
KaHo Lam, Undergraduate Mentee
Alexander Cook, Faculty Adviser

Synthesis of a New Hydrocarbon Substrate for Platinum Catalysis
Department of Chemistry
Miriam Bowring, Graduate Mentor
Kathryn Liu, Undergraduate Mentee
Robert Bergman, Faculty Adviser

Analyzing Social Media Data for Democratic Practices in Social Movement Organizations
Department of Sociology
Jen Schradie, Graduate Mentor
Maggie Hardy, Undergraduate Mentee
Kim Voss, Faculty Adviser

Nanostructuring of Electrodes for Novel Photovoltaic Systems
Department of Physics
Sebastian Wickenburg, Graduate Mentor
Han Sae Jung, Undergraduate Mentee
Michael Crommie, Faculty Adviser

The Great Fire of Fort-de-France: Exploring the Language of Catastrophe, Citizenship, and Compatriotism in Colonial Martinique
Department of History
Christopher Church, Graduate Mentor
Yvonne Lin, Undergraduate Mentee
Tyler Stovall, Faculty Adviser

Maternal Mortality and Abortion Law Liberalization in Ethiopia: The Potential Roles of Midwives in Implementation
School of Public Health
Sarah Jane Holcombe, Graduate Mentor
Alvin Chan, Undergraduate Mentee
Ann Keller, Faculty Adviser

Analyzing Social Media Data for Democratic Practices in Social Movement Organizations
Department of Sociology
Jen Schradie, Graduate Mentor
Maggie Hardy, Undergraduate Mentee
Kim Voss, Faculty Adviser

Becoming Citizens without the Rights of Citizenship: U.S.-Born Women and the Loss and Reacquisition of Citizenship
Department of History
Brendan Shanahan, Graduate Mentor
Leila Rock, Undergraduate Mentee
Brian DeLay, Faculty Adviser

Validation of DNA Methylation in Blood for Study of Prenatal Origins of Later-Life Obesity
School of Public Health
Paul Yousefi, Graduate Mentor
Girish Motwani, Undergraduate Mentee
Nina Holland, Faculty Adviser

Hypervisibility of Race and Poverty in the Lower Ninth Ward since Hurricane Katrina
Department of Sociology
Siri Colom, Graduate Mentor
Veronica Chew, Undergraduate Mentee
Michael Burawoy, Faculty Adviser

The Price of the Purchase: Accounting for the Conquest of Indian Country
Department of History
Robert Lee, Graduate Mentor
Matthew Irons, Undergraduate Mentee
Mark Peterson, Faculty Adviser

Assembling Gold Nanoparticles Using DNA
Department of Chemistry
Jessica Smith, Graduate Mentor
Sarah Hull, Undergraduate Mentee
Paul Alivisatos, Faculty Adviser

The Rise and Fall of International Adoption: An Analysis of Policy Changes and their Effects
Department of Sociology
Sarah Macdonald, Graduate Mentor
Andrea Sequeira, Undergraduate Mentee
Marion Fourcade, Faculty Adviser

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