


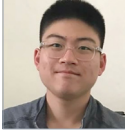

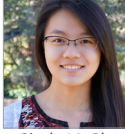











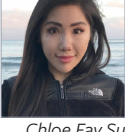

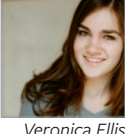






















# Berkeley Graduate Division

## 2018 Student Mentoring and Research Teams & Projects






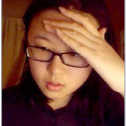

MENTORS	PROJECT DESCRIPTION	MENTEES
 <i>Karl Dunkle Werner</i>	<b>AGRICULTURAL AND RESOURCE ECONOMICS</b> <b>1.</b> Health Effects of Changes in Local Air Pollution Driven by Nuclear Plant Closures	 <i>Jiaqi (Arianna) Guo</i>
 <i>Laura Boudreau</i>	<b>BUSINESS AND PUBLIC POLICY</b> <b>2.</b> Demand-Driven, Private Sector Enforcement of Labor Law in Bangladesh	 <i>Min Jae Shin</i>
 <i>Matthew Hauwiler</i>	<b>CHEMISTRY</b> <b>3.</b> Controlling Metallic Nanocrystal Shape Transformations Through Non-Equilibrium Etching	 <i>Cindy M. Chan</i>
 <i>Dave Amos</i>	<b>CITY AND REGIONAL PLANNING</b> <b>4.</b> Pedestrian Path Networks in the Suburbs: Evaluating their Contributions to Walkability	 <i>Garrett Seno</i>
 <i>Manuel Santana</i>	<b>CITY AND REGIONAL PLANNING</b> <b>5.</b> New Frontiers in Urban Transportation Research: Exploring Crowdsourced Data on Activity Diaries of Marginalized Low-Income Populations in Bogotá	 <i>Brian Mickel</i>
 <i>Jacob F. Duncan</i>	<b>CIVIL AND ENVIRONMENTAL ENGINEERING</b> <b>6.</b> Hybrid Simulation and Seismic Testing of Environmentally Damaged Bridge Columns	 <i>Jackson Le</i>
 <i>Amelia M. Farid</i>	<b>EDUCATION</b> <b>7.</b> Learning to Define Mathematical Objects and Operations, Learning to Divide Fractions: Fostering the Co-Development of Two Essential Competencies—A Cross-Sectional Study	 <i>Celia Diffely</i>
 <i>Danielle Fleming</i>	<b>EDUCATION</b> <b>8.</b> Following the Leaders: Special Education Policy Diffusion Based on the Convention on the Rights of Persons with Disabilities (CRPD)	 <i>Nidhi Chandra</i>
 <i>Allegra J. Midgette</i>	<b>EDUCATION</b> <b>9.</b> Gendered Housework Distribution and Morality: Issues of Fairness in American Families	 <i>Chloe Fay Su</i>
 <i>Ignacio Escalante</i>	<b>ENVIRONMENTAL SCIENCE, POLICY, AND MANAGEMENT</b> <b>10.</b> Ecological and Behavioral Consequences of Losing Legs in Daddy Long-Legs	 <i>Veronica Ellis</i>

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MENTORS	PROJECT DESCRIPTION	MENTEES
 Brian Whyte	<b>ENVIRONMENTAL SCIENCE, POLICY, AND MANAGEMENT</b> <b>11.</b> Friend or Foe: Discovering the Colony-Recognition System of Eusocial Flatworms	 Benjamin Malit
 Kimberly Killion	<b>HISTORY</b> <b>12.</b> “Menus that Serve Your Country”: The Influence of the U.S. Food Administration on Nutrition Science during World War I	 Kylie Nguyen
 Daniel Fremont	<b>LOGIC AND THE METHODOLOGY OF SCIENCE</b> <b>13.</b> Fuzz Testing Software with Control Improvisation	 William Brandon
 Theo McKenzie	<b>MATHEMATICS</b> <b>14.</b> Approximation Algorithms in Semirandom Models	 Hermish Mehta
 Gabriel R. López-Marcial	<b>MECHANICAL ENGINEERING</b> <b>15.</b> Mechanics of 3D Printed Cartilage Constructs	 Keerthana Elango
 Laura Craciun	<b>MOLECULAR AND CELL BIOLOGY</b> <b>16.</b> Exploring the Impact of Faulty Astrocytes on Brain Development	 Tian Yuan Chen
 Kurtresha Worden	<b>MOLECULAR AND CELL BIOLOGY</b> <b>17.</b> Regulation of Microglial Function in the Healthy and Diseased Brain	 Veronica Maza
 Gil Breger	<b>NEAR EASTERN STUDIES</b> <b>18.</b> A Network of Stars: Mapping the Ancient Heavens	 Alexa Yiqing Li
 Amanda G. McRae	<b>PLANT AND MICROBIAL BIOLOGY</b> <b>19.</b> Powdery Mildew-Secreted Effector Proteins Target Host Plant Transcription Factors Involved in Growth and Development	 Elizabeth Applegate
 Tess Scavuzzo-Duggan	<b>PLANT AND MICROBIAL BIOLOGY</b> <b>20.</b> Characterization of a Novel Plant Cell Wall Enzyme in the Model Plants <i>Nicotiana benthamiana</i> and <i>Arabidopsis thaliana</i>	 Gauri R. Kapse

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MENTORS	PROJECT DESCRIPTION	MENTEES
	<b>POLITICAL SCIENCE</b> <b>21.</b> The Dark Side of Political Participation: The Public's Veto and the Housing Crisis in U.S. Cities	
	<b>POLITICAL SCIENCE</b> <b>22.</b> Understanding the Role of Gender: The Unique Path Women Take on the Road to Candidacy in Sub-Saharan Africa	
	<b>PSYCHOLOGY</b> <b>23.</b> Comparing Human and Artificial Intelligence	
	<b>SOCIOLOGY</b> <b>24.</b> The Authoritarian Foundations of the Rule of Law: Spain and Mexico in Comparative Perspective	