

# Santiago J. Molina

Postdoctoral Fellow

Department of Sociology

Science in Human Culture Program

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## Areas of Work

Sociology of science, technology and knowledge; political sociology; sociology of racial and ethnic relations; organizational sociology; disability studies; and bioethics.

## Education

- Aug 2021 Ph.D. Sociology, University of California, Berkeley,  
Committee: Michael Burawoy, Marion Fourcade (chair), Armando Lara-Millán, and  
Osagie Obasogie  
Dissertation: *How Science Produces Institutions: The Practice and Politics of Genome Editing*
- 2016 M.A. Sociology, University of California, Berkeley  
Areas of examination: Social Theory, Sociology of Science/Knowledge, and Political  
Sociology of Race/Ethnicity, University of California-Berkeley,  
Thesis: *Categorical Heterogeneity in Latin American Human Biology: Amerindians, Europeans,  
Makiritare, Mestizos, Puerto Rican, and Quechua*
- 2012 B.A. History, Philosophy and Social Studies of Science and Medicine (HiPSS) and  
minor in Philosophy (General and Departmental Honors); University of Chicago

## Peer-reviewed Publications

- 2020 Lucas, S.R, **Molina S.J.**, Towey, J.M. (2020) "Race/Ethnicity over Fifty Years of  
Structural Differentiation in K–12 Schooling: Period-Specific and Life-Course  
Perspectives." *Annual Review of Sociology* 46: 355–378.
- 2017 **Molina, S.J.** (2017) “Categorical Heterogeneity in Latin American Human Biology:  
Amerindians, Europeans, Makiritare, Mestizos, Puerto Rican, and Quechua”  
*Perspectives on Science*, Vol. 25 (5), pp.655-679
- 2015 Merriman, B. and **Molina, S.J.** “Variable Conceptions of Population in Community  
Resource Genetic Projects: A Challenge for Governance,” *New Genetics and Society*,  
Vol. 34:3, p.294-318

## Other Publications

- 2016 **Molina, S. J.** “La Construcción de Poblaciones Utilizando los Censos de Población en Latinoamérica. Reseña: National Colors: Racial Classification and the State in Latin America, Loveman.” *Revista Brasileira de Estudos de População*, 2016
- 2016 **Molina, S.J.** “Book Review: Mestizo Genomics: Race Mixture, Nation, and Science in Latin America.” *Ethnohistory*, 63(1), 193-194
- 2012 **Molina, S.J.** “The Evolution and Principles of Informed Consent in Population Genetics,” Published in the *Princeton Journal of Bioethics, Bioethics Conference Special Publication*

## Awards, Fellowships, and Grants

- 2021 Hacker-Mullins Graduate Student Paper Award Honorable Mention, Section on Science, Knowledge and Technology for “Academic Capitalism and the Moral Ordering of Genome Editing”
- 2019-21 Graduate Fellow, Institute for the Study of Societal Issues, University of California, Berkeley
- 2019-21 Berkeley Connect Fellow, Division of Undergraduate Education, University of California, Berkeley
- 2019-20 Dissertation Completion Fellowship, University of California, Berkeley
- 2019-20 National Science Foundation Dissertation Improvement Grant, Sociology Program: *Institutionalizing Standards in Clinical Genome Editing*, NSF#1904321
- 2018 Center for Technology, Society and Policy Fellowship, University of California, Berkeley
- 2017-18 Leo Lowenthal Dissertation Fellowship, University of California, Berkeley
- 2017 Summer Research Grant, University of California, Berkeley
- Travel Award, Graduate Assembly, University of California, Berkeley
- 2016 Summer Research Grant, University of California, Berkeley
- 2014 Travel Award, Graduate Assembly, University of California, Berkeley
- 2012 Oliver Cromwell Cox–Ernest Just Prize awarded by the Deputy Provost for Research and Minority Issues, University of Chicago

## Presentations

- 2020 “Academic Capitalism and the Normalization of Genome Editing,” Governing Reproductive Bio-economies: Policy Frameworks, Ethics and Economics, European Association for the Study of Science and Technology/Society for the Social Studies of Science (EASST/4S, virtual meeting)

“Academic Capitalism and the Normalization of Genome Editing,” Sociology of Science II: Making Knowledge, Molding Practice, American Sociological Association (Virtual meeting)

“Academic Capitalism and the Normalization of Genome Editing,” Society for the Advancement of Socio-Economics (Virtual meeting)

“Genome Editing in Crisis: Scientific Misconduct and Boundary Repair” SASE-Miniconference: Crisis, Temporality, and Governance (Virtual meeting)

“The Banality of Scientific Progress: An Etiology of the #CRISPRbabies Controversy,” Reproductive Technologies, Reproductive Justice conference, Harvey Mudd College (Claremont, CA)

2019 “The Banality of Scientific Progress: An Etiology of the #CRISPRbabies Controversy,” American Sociological Association, (New York, NY)

“Democratizing Biotechnology: Institutional Constraints on Participatory Governance in Genetic Engineering,” with Gordon Pherribo, Society for the Social Studies of Science (New Orleans, LA)

“Remembering Histories of Biotechnology,” with Gordon Pherribo, Plant Genome Engineering Symposium (Berkeley, CA)

2017 “The Development of Standards of Practice in Genetic Engineering: Collaboration/Communication,” Society for the Social Studies of Science (Boston, MA)

“Categorical Heterogeneity in Latin American Human Biology: Amerindians, Europeans, Makiritare, Mestizos, Puerto Rican, and Quechua,” American Sociological Association (Montreal, Canada)

2015 “Origins of ‘Populationist’ Human Biology: Scientific Collaboration, Sampling, and Standards,” Populations of Cognition: Interconnected Histories of Human Variation in Latin America, UNAM (Mexico City, Mexico)

2015 “The Instrumentalist Construction of Human Genetic Diversity,” American Sociological Association (Chicago, IL)

2014 “The Entrenchment of Ethnic Populations in Genomics and Epidemiology” presented at the joint meeting of the Society for Social Studies of Science (4S) and

the Sociedad Latinoamericana de Estudios Sociales de la Ciencia y la Tecnología  
(Buenos Aires, Argentina)

“The Social and Ethical Consequences of Ambiguous Definitions of ‘Population’ in  
Community Resource Projects” 12th World Congress of Bioethics, International  
Association of Bioethics (Mexico City, Mexico)

2013 “The Dilemma of Openness: Risk to Populations in the International HapMap and  
1000 Genomes Projects,” with Benjamin Merriman, American Sociological  
Association (New York, NY)

“A Framework for Understanding the Use of a Plurality of Population Categories in  
Epidemiology,” Society for the Philosophy of Scientific Practice (Toronto, Canada)

“The Dilemma of Openness: Risk to populations in the International HapMap and  
1000 Genomes Projects,” with Benjamin Merriman, Midwest Sociological Society  
(New York, NY)

## Research

### *Research Assistant*

- 2020- Understanding Variation: Normative and Analytical Implications of Using  
“Population” and “Ancestry” for Generalization and Comparison, Edmond J. Safra  
Center for Ethics, Harvard University (PI: Anna Lewis and Danielle Allen)
- 2019 Therapeutic Misestimation in Translational Genome Editing, UC Berkeley School of  
Public Health (PI: Jodi Halpern)
- 2018 The Capacity Challenge: Governing in an Era of Rapid Scientific, Technological, and  
Economic Change, NSF award #1735661, UC Berkeley School of Public Health (PI:  
Ann Keller)
- 2016-17 Dynamics of High School Enrollment, NSF award #1628813, UC Berkeley  
Sociology (PI: Samuel R. Lucas)
- 2015 Discriminatory Design, Princeton University (PI: Ruha Benjamin)
- Racial and Ethnic Categories in Latin American Censuses (PI: Mara Loveman)
- 2014 Emergence of ‘Hispanic’ as a Category in the U.S. (PI: Cristina Mora)

## Teaching

### University of California-Berkeley

#### *Primary Instructor of Record*

2018-F SOC190: Sociology of Illness: The Normal and Pathological Through the Lens of Genetics

#### *Graduate Student Instructor*

2017-Sum SOCN1H: Introduction to Sociology for Pre-Health Majors, with Professor L. Katherine Thompson

2016-Sp STS100/HIST182C/ISFC100G: Science, Technology and Society, with Professor Massimo Mazzotti

2015-F SOC5: Research Methods; Evaluating Evidence, with Professor Irene Bloemraad

2015-Sp SOC01: Introduction to Sociology, with Professor Thomas B. Gold

2014-F SOC5: Research Methods, Evaluating Evidence with Professor Samuel R. Lucas

#### *Mentorship*

2019-20 Berkeley Connect Mentor

2016-18 Senior Thesis Mentoring Program

#### *Invited Lecturer and Panelist*

2021 “A Sociological Introduction to Genome Editing,” SOC166 Sociology of Health and Medicine

2020 “Applying to Graduate School,” Berkeley Sociology Summer Research Program on Race

“De-mystifying Graduate School,” Sociology Mentorship Program

2019 “A Sociological Introduction to Genome Editing,” ENG350R: Experimental Futures, University of Texas, Austin

2019-Sp “A Sociological Introduction to Genome Editing,” SOC115 Sociology of Health and Medicine

2018-F “The Politics of Genetic Engineering” with Gordon Pherribo; HIST 180: The Life Sciences since 1750

2018-F	“A Sociological Introduction to Genome Editing,” SOC115 Sociology of Health and Medicine
2016-Sp	“Boxes: How Categories and Tools Construct Science and Society” SOC166: <i>Society and Technology</i>
2015-Sum	“Bioethics and the Cultivation of the Scientific Self,” QB3 Lab Fundamentals Bootcamp
2015-Sp	“A Brief History of Science,” MCB15: Public Understanding of Science
<i>Reader</i>	
2019-Sp	SOC115: Sociology of Health and Medicine (with Professor Armando Lara-Millán)
2014-Sp	SOC175: Society and Technology (with Professor Linus Huang)
2014-F	SOC120 Organizational Strategy and Design (with Professor Sylvia Flatt)

### **Professional Service and Affiliations** (\*Current)

#### **American Sociological Association (ASA)**

2013-*	Member, Science, Knowledge and Technology Section (SKAT)
2020-*	Ad-Hoc Anti-Racist Organizing Committee
2019	Section Membership Committee
2018	Star-Nelkin Award Committee
2018-*	Member, Disability in Society Section
2018-*	Member, Social Theory Section

#### **Society for the Social Studies of Science (4S)**

2013-*	Member
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#### **Society for the Advancement of Socio-Economics (SASE)**

2020-*	Member
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#### **Regional**

2020-*	Member, Southern Sociological Society (SSS)
2018-*	Member, Pacific Sociological Association (PSA)
2013	Member, Midwest Sociological Society (MSS)

#### **Center for Science, Technology, Medicine and Society (CSTMS), UC Berkeley**

2014-17	Organizer, Science and Technology Studies Working Group
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## **Department of Sociology, UC Berkeley**

2018-19 Graduate Admissions Committee  
2016-\* Member, Students of Color and Allies Working Group; Non-Black POC Anti-Racism Working Group  
2015-\* Organizer, Methods and Epistemology of Social Sciences (MESS) Working Group  
2014-15 Graduate Students de la Raza

## **Technical Skills**

Software: MAXQDA, R (including R Studio), Descript, Ligre, Gephi  
Qualitative: Comparative historical analysis, archival identification and analysis, semi-structured and structured interviewing, focus group coordination and facilitation, participant observation  
Languages: English, Spanish, Portuguese  
Other: Human subjects protocol review and study design