

Santiago J. Molina

PhD Candidate

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Department of Sociology

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Education

Ph.D Sociology, University of California-Berkeley, expected December 2020

Committee: Michael Burawoy, Marion Fourcade (chair), Armando Lara-Milan, and Osagie Obasogie

M.A. Sociology; Areas of examination: Social Theory, Sociology of Science/Knowledge, and Political Sociology, University of California-Berkeley, 2016

B.A. History, Philosophy and Social Studies of Science and Medicine (HiPSS) and minor in Philosophy (General and Departmental Honors); The University of Chicago

Publications

Lucas, S.R, Molina S.J., Towey, J.M. "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.

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

Molina, S. J. (2016). "La construcción de poblaciones utilizando los censos de población en Latinoamérica. Reseña: National colors: racial classification and the state in Latin America, Loveman." *R. bras. Est. Pop.*, Rio de Janeiro, 2016

Molina, S.J. (2016). "Book Review: Mestizo Genomics: Race Mixture, Nation, and Science in Latin America." *Ethnohistory*, 63(1), 193-194

Merriman, B. and Molina, S.J. (2015) "Variable conceptions of population in community resource genetic projects: a challenge for governance," *New Genetics and Society*, Vol. 34:3, p.294-318

Molina, S.J. (2012) "The Evolution and Principles of Informed Consent in Population Genetics," Published in the Princeton Journal of Bioethics, *Bioethics Conference Special Publication*

Manuscripts in Progress

“Academic Capitalism and the Normalization of Genome Editing in a Biotech-Cluster”

“CRISPR-Cas9 Technology: Innovation and the Progression of Scientific Research Programs”

“The Banality of Scientific Progress: an etiology of the #CRISPRbabies controversy”

“Backstage Decisions, Frontstage Experts: Institutional Constraints on Democratic Governance of Genetic Engineering” with Gordon Pherribo

Awards and Grants

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| 2019-21 | Institute for the Study of Society Issues Graduate Fellowship, University of California-Berkeley |
| 2019-20 | Dissertation Completion Fellowship, University of California-Berkeley |
| 2019-20 | Berkeley Connect Fellow, University of California-Berkeley |
| 2019-20 | National Science Foundation Dissertation Improvement Grant, Sociology Program: <i>Institutionalizing Standards in Clinical Genome Editing</i> ; NSF#1904321 |
| 2018 | Center for Technology, Society and Policy Fellowship, - 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

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| 2020 | <p>“Academic Capitalism and the Normalization of Genome Editing,” presented at the meeting of the Society for the Advancement of Socio-Economics (Virtual meeting)</p> <p>“Genome Editing in Crisis: Scientific Misconduct and Boundary Repair” presented at the SASE-Miniconference: Crisis, Temporality, and Governance (Virtual meeting)</p> <p>“The Banality of Scientific Progress: an etiology of the #CRISPRbabies controversy,” presented at the Reproductive Technologies, Reproductive Justice conference, Harvey Mudd College (Claremont, CA)</p> |
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- 2019 “The Banality of Scientific Progress: an etiology of the #CRISPRbabies controversy,” presented at the meeting of the American Sociological Association, (New York, NY)
- “Democratizing Biotechnology: Institutional Constraints on Participatory Governance in Genetic Engineering,” with Gordon Pherribo, presented at the meeting of the Society for the Social Studies of Science (New Orleans, LA)
- “Remembering Histories of Biotechnology,” with Gordon Pherribo, presented at the Plant Genome Engineering Symposium (Berkeley, CA)
- 2017 “The Development of Standards of Practice in Genetic Engineering: Collaboration/Communication,” presented at the meeting of the Society for the Social Studies of Science (Boston, MA)
- “Categorical Heterogeneity in Latin American Human Biology: Amerindians, Europeans, Makiritare, Mestizos, Puerto Rican, and Quechua,” presented at the meeting of the American Sociological Association (Montreal, Canada)
- 2015 “Origins of ‘Populationist’ Human Biology: Scientific Collaboration, Sampling, and Standards,” presented at the invited workshop: Populations of Cognition: Interconnected histories of human variation in Latin America, UNAM (Mexico City, Mexico)
- 2015 “The Instrumentalist Construction of Human Genetic Diversity,” presented at the meeting of the 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” presented at the 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, presented at the meeting of the American Sociological Association (New York, NY)
- “A framework for understanding the use of a plurality of population categories in epidemiology,” presented at the meeting of the 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, presented at the meeting of the Midwest Sociological Society (New York, NY)

Research

Research Assistant

- 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

Invited Lecturer

- 2019- “A Sociological introduction to Genome Editing,” ENG350R: Experimental Futures, University of Texas, Austin
- 2018-F “The Politics of Genetic Engineering” with Gordon Pherribo; HIST 180: The Life Sciences since 1750
- 2019-Sp “A Sociological introduction to Genome Editing,” SOC115 Sociology of Health and Medicine
- 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: *Society and Technology*
- 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

Reader

- 2019-Sp SOC115: Sociology of Health and Medicine (with Professor Armando Lara-Milán)
- 2014-Sp SOC175: Society and Technology (with Professor Linus Huang)
- 2014-F SOC120 Organizational Strategy and Design (with Professor Sylvia Flatt)

Professional Service

American Sociological Association- Science, Knowledge and Technology

- 2019 Section Membership Committee
- 2018 Star-Nelkin Award Committee

Center for Science, Technology, Medicine and Society (CSTMS)

- 2014-17 Organizer of the Science and Technology Studies Working Group

UC Berkeley Department of Sociology

- 2018-19 Graduate Admissions Committee
- 2015- Organizer of the Methods and Epistemology of Social Sciences (MESS) Working Group