




Daphne O. Martschenko

Assistant Professor (Research) of Pediatrics (Stanford Center for Biomedical Ethics)
Pediatrics - Center for Biomedical Ethics

 NIH Biosketch available Online

 Curriculum Vitae available Online

Bio

BIO

Daphne Martschenko, Ph.D., is an Assistant Professor at the Stanford University Center for Biomedical Ethics.

I hold an MPhil from the University of Cambridge in Politics, Development, and Democratic Education and in 2019 received a Ph.D. in Education, also from the University of Cambridge. My doctoral work investigated teacher perspectives on the role and relevance of genetic data for education, focusing on how behavioral genetics research on educational attainment and intelligence intersected with educators' conceptualizations of racial and socioeconomic disparities in the American education system. I have appeared in numerous podcasts including Freakonomics Radio. I've had my work published in publicly accessible media outlets like Scientific American and The Conversation. My work advocates for and facilitates research efforts that promote socially responsible communication of and community engagement with social and behavioral genomics.

Currently I am writing a book with my friend and colleague Sam Trejo, a quantitative social scientist interested in how social and biological factors jointly shape human development across the life-course. In it, we unpack various social, ethical, and policy issues related to the DNA revolution. The floodgates of genetic data have opened, resurfacing age-old debates and raising new questions. We hope our book moves past the dichotomies—interpretivist vs. positivist, qualitative vs. quantitative, optimism vs. pessimism regarding biological explanations—that vex the biosocial sciences.

ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Pediatrics - Center for Biomedical Ethics

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, ClinGen Ancestry and Diversity Working Group (2021 - present)
- Board of Directors Member, Blueprint Schools Network (2021 - present)
- Advisory Committee Member, Enhancing diversity of clinical trials in Duchenne (2022 - present)
- Steering Committee Member, Wrestling with Social and Behavioral Genomics: Risk, Potential Benefit, and Ethical Responsibility (2020 - 2022)
- Member, Population Association of America (2023 - present)
- Member, American Society for Bioethics and the Humanities (2020 - present)
- Member, American Society for Human Genetics (2021 - present)

PROFESSIONAL EDUCATION

- B.A., Stanford University , Slavic Languages and Literature (2014)
- B.A., Stanford University , Anthropology (Medical) (2014)

- M.Phil., University of Cambridge , Politics, Development, and Democratic Education (2016)
- Ph.D., University of Cambridge , Education (2019)

LINKS

- ORCID: <http://orcid.org/0000-0002-9046-5893>
- Website: daphnemartschenko.com

Teaching

COURSES

2023-24

- Introduction to Genetics, Ethics, and Society: GENE 220 (Spr)
- The Responsible Conduct of Research: MED 255 (Aut, Win, Sum)

2022-23

- Introduction to Genetics, Ethics, and Society: GENE 220 (Spr)
- The Responsible Conduct of Research: MED 255 (Spr, Sum)

Publications

PUBLICATIONS

- **Including multiracial individuals is crucial for race, ethnicity and ancestry frameworks in genetics and genomics.** *Nature genetics*
Martschenko, D. O., Wand, H., Young, J. L., Wojcik, G. L.
2023
- **The Value of Intersectionality for Genomic Research on Human Behavior.** *Genetics in medicine : official journal of the American College of Medical Genetics*
Matthews, L. J., Martschenko, D. O., Sabatello, M.
2023: 100860
- **Wrestling with Public Input on an Ethical Analysis of Scientific Research.** *The Hastings Center report*
Martschenko, D. O., Callier, S. L., Garrison, N. A., Lee, S. S., Turley, P., Meyer, M. N., Parens, E.
2023; 53 Suppl 1: S50-S65
- **Data sharing and community-engaged research.** *Science (New York, N.Y.)*
Sabatello, M., Martschenko, D. O., Cho, M. K., Brothers, K. B.
2022; 378 (6616): 141-143
- **Ethical, anticipatory genomics research on human behavior means celebrating disagreement.** *HGG advances*
Martschenko, D. O., Trejo, S.
1800; 3 (1): 100080
- **FoGS provides a public FAQ repository for social and behavioral genomic discoveries.** *Nature genetics*
Martschenko, D. O., Domingue, B. W., Matthews, L. J., Trejo, S.
2021; 53 (9): 1272-1274
- **Beware of the phony horserace between genes and environments.** *The Behavioral and brain sciences*
Trejo, S., Martschenko, D. O.
2023; 46: e228
- **Wrestling with Social and Behavioral Genomics: Risks, Potential Benefits, and Ethical Responsibility.** *The Hastings Center report*
Meyer, M. N., Appelbaum, P. S., Benjamin, D. J., Callier, S. L., Comfort, N., Conley, D., Freese, J., Garrison, N. A., Hammonds, E. M., Harden, K. P., Lee, S. S., Martin, A. R., Martschenko, et al
2023; 53 Suppl 1: S2-S49

- **Confronting ethical and social issues related to the genetics of musicality** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
Gordon, R. L., Martschenko, D. O., Nayak, S., Niarchou, M., Morrison, M. D., Bell, E., Jacoby, N., Davis, L. K.
2023; 1522 (1): 5-14
- **Re-envisioning community genetics: community empowerment in preventive genomics.** *Journal of community genetics*
Wand, H., Martschenko, D. O., Smitherman, A., Michelson, S., Pun, T., Witte, J. S., Scott, S. A., Cho, M. K., Ashley, E. A., Preventive Genomics Program Co-Design Working Group, Goldberg, E., Knepper, L., Michelson, S., et al
2023
- **Black Bioethics in the Age of Black Lives Matter** *JOURNAL OF MEDICAL HUMANITIES*
Ray, K., Fletcher, F. E., Martschenko, D. O., James, J. E.
2023: 1-17
- **Rethinking the "Public" and Rethinking "Engagement".** *The American journal of bioethics : AJOB*
Fox, B., Martschenko, D. O.
2023; 23 (7): 66-68
- **Precision Medicine Needs to Think Outside the Box.** *Frontiers in genetics*
Martschenko, D. O., Young, J. L.
2022; 13: 795992
- **The Genetic Lottery: Why DNA Matters for Social Equality (Book Review)** *HASTINGS CENTER REPORT*
Book Review Authored by: Martschenko, D.
2021; 51 (6): 54-55
- **Normalizing race in (gifted) education: genomics and spaces of White exceptionalism** *CRITICAL STUDIES IN EDUCATION*
Martschenko, D.
2023; 64 (1): 67-83
- **"The elephant in the room": social responsibility in the production of sociogenomics research** *BIOSOCIETIES*
Martschenko, D.
2022; 17 (4): 713-731
- **What about Ethics in Design Bioethics?** *AMERICAN JOURNAL OF BIOETHICS*
Martschenko, D., Martinez-Martin, N.
2021; 21 (6): 61-63
- **Genes do not operate in a vacuum, and neither should our research** *NATURE GENETICS*
Martschenko, D., Smith, M.
2021; 53 (3): 255-56
- **Embodying biopolitically discriminate borders: teachers' spatializations of race** *DISCOURSE-STUDIES IN THE CULTURAL POLITICS OF EDUCATION*
Martschenko, D.
2022; 43 (1): 101-114
- **"The train has left the station": The arrival of the biosocial sciences in education** *RESEARCH IN EDUCATION*
Martschenko, D.
2020; 107 (1): 3-9
- **DNA Dreams': Teacher Perspectives on the Role and Relevance of Genetics for Education** *RESEARCH IN EDUCATION*
Martschenko, D.
2020; 107 (1): 33-54
- **Genetics and Education: Recent Developments in the Context of an Ugly History and an Uncertain Future** *AERA OPEN*
Martschenko, D., Trejo, S., Domingue, B. W.
2019; 5 (1)

PRESENTATIONS

- The New Borderland: Genetics at the School House Door - University of Wisconsin- Madison Summer Demography Seminar (May 30, 2019)

- Adversarial Collaboration in the Context of an Ugly History and an Uncertain Future - Polygenic Prediction and its Application in Social Science (November 30, 2018)