



Daphne O. Martschenko

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

Pediatrics - Center for Biomedical Ethics

 Curriculum Vitae available Online

Bio

BIO

Dr. Daphne Oluwaseun Martschenko is an Assistant Professor at the Stanford Center for Biomedical Ethics. Her scholarship identifies novel ways to examine and enhance the ethical and socially responsible conduct, translation, and interpretation of human genetic research.

Dr. Martschenko is passionate about fostering public and community engagement with controversial scientific research. She has appeared in the New York Times and on numerous podcasts including Freakonomics Radio. Dr. Martschenko's work is published in publicly accessible media outlets such as Scientific American and The Conversation. In 2023, she was named one of 10 Scientists to Watch by ScienceNews.

Currently, Dr. Martschenko is writing a book with her 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, they unpack various social, ethical, and policy issues related to the DNA revolution.

ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Pediatrics - Center for Biomedical Ethics
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- SN Top-10 Scientists to Watch, ScienceNews (June 20, 2023)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Steering Committee Member, Stanford Medicine Teaching & Mentoring Academy (2025 - present)
- External Advisory Board Member, Leadership in the Equitable and Ethical Design of STEMM Research (2023 - present)
- External Advisory Board Member, Undiagnosed Diseases Network (2023 - present)
- Member, ClinGen Ancestry and Diversity Working Group (2021 - present)
- Board of Directors Member, Blueprint Schools Network (2021 - present)
- Steering Committee Member, Wrestling with Social and Behavioral Genomics: Risk, Potential Benefit, and Ethical Responsibility (2020 - 2022)
- Advisory Committee Member, Enhancing diversity of clinical trials in Duchenne (2022 - 2023)
- 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
- Center for Biomedical Ethics: <https://med.stanford.edu/bioethics.html>

Research & Scholarship

PROJECTS

- 1K01HG013352-01 - National Human Genome Research Institute (2/6/2024)

Teaching

COURSES

2024-25

- Introduction to Genetics, Ethics, and Society: GENE 220 (Spr)
- Justice in Biotechnologies: Who Benefits and Who Is Left Behind: COLLEGE 117 (Spr)
- The Promises and Perils of Social and Behavioral Genomics: OSPOXFRD 84 (Win)

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)

STANFORD ADVISEES

Med Scholar Project Advisor

Daisheau Player

Publications

PUBLICATIONS

- **Increasing equity in science requires better ethics training: A course by trainees, for trainees.** *Cell genomics*
Patel, R. A., Ungar, R. A., Pyke, A. L., Adimoelja, A., Chakraborty, M., Cotter, D. J., Freund, M., Goddard, P., Gomez-Stafford, J., Greenwald, E., Higgs, E., Hunter, N., MacKenzie, et al
2024: 100554
- **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
- **Intersectionality in a Sociogenomic World: How do Race, Disability, Socioeconomic Status, and Polygenic Prediction Interact to Impact Perceptions of Educational Trajectories?** *Genetics in medicine : official journal of the American College of Medical Genetics*
Matthews, L. J., Martschenko, D. O., V, C. L., Sabatello, M.
2025: 101368
- **Design and implementation of an action plan for justice, equity, diversity, and inclusion within the Clinical Genome Resource.** *American journal of human genetics*
Popejoy, A. B., Ritter, D. I., Azzariti, D., Berg, J. S., Bulkley, J. E., Cho, M., Gonzaga-Jauregui, C., Klein, T. E., Martschenko, D. O., Oni-Orisan, A., Ramos, E. M., Rehm, H. L., Riggs, et al
2025
- **Ethics of genomic research on occupational status.** *Nature human behaviour*
Martschenko, D. O.
2024
- **Considering the Risks, Potential Benefits, and Ethical Responsibilities of Social and Behavioral Genomics**
Martschenko, D. O.
SPRINGER.2024: 590
- **Incorporating multiracial and multiethnic experiences into genetic counseling practice and research: A necessary opportunity.** *Journal of genetic counseling*
Lowe, C., Gomez-Stafford, J., Martschenko, D. O.
2024
- **The methodological and ethical concerns of genetic studies of same-sex sexual behavior.** *American journal of human genetics*
Ventresca, C., Martschenko, D. O., Wedow, R., Civelek, M., Tabery, J., Carlson, J., Parker, S. C., Ramos, P. S.
2024
- **Schoolhouse risk: Can we mitigate the polygenic Pygmalion effect?** *Acta psychologica*
Matthews, L. J., Zhang, Z., Martschenko, D. O.
2024; 248: 104403
- **"Ethical Responsibility Very Often Gets Drowned Out": A Qualitative Interview Study of Genome Scientists' and ELSI Scholars' Perspectives on the Role and Relevance of ELSI Expertise.** *AJOB empirical bioethics*
Martschenko, D. O., Grannuci, A., Cho, M. K.
2024: 1-12
- **Barriers to diverse clinical trial participation in Duchenne muscular dystrophy: Engaging Hispanic/Latina caregivers and health professionals.** *Orphanet journal of rare diseases*
Crossnohere, N. L., Campoamor, N. B., Camino, E., Dresnick, E., Martschenko, D. O., Rodrigues, V., Apkon, S., Hazlett, A., Mittur, D., Rodriguez, P. E., Bridges, J. F., Armstrong, N.
2024; 19 (1): 207

- **Practical Approaches to Enhancing Fairness, Social Responsibility and the Inclusion of Diverse Viewpoints in Biomedicine.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Martschenko, D. O., Martinez-Martin, N., Halley, M.
2024; 29: 645-649
- **Placing Publics in Public Health Genomics.** *Public health genomics*
Fox, B. M., Martschenko, D. O.
2024; 27 (1): 23-29
- **Are we nearly there yet? Starts and stops on the road to use of polygenic scores.** *Journal of community genetics*
Moorthie, S., Martschenko, D. O., Fatumo, S.
2023
- **Social and Behavioral Genomics: What Does It Mean for Pediatrics?** *The Journal of pediatrics*
Martschenko, D. O., Matthews, L. J., Sabatello, M.
2023: 113735
- **Promoting diagnostic equity: specifying genetic similarity rather than race or ethnicity.** *Journal of medical ethics*
Saylor, K. W., Martschenko, D. O.
2023
- **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
- **Social and Behavioural Genomics and the Ethics of (In)Visibility** *GENETIC SCIENCE AND NEW DIGITAL TECHNOLOGIES*
Martschenko, D., Sikka, T.
2023: 9-27
- **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)