

## **Daphne Oluwaseun Martschenko, PhD**

Stanford University | Center for Biomedical Ethics  
[daphnem@stanford.edu](mailto:daphnem@stanford.edu)

**Website:** <https://daphnemartschenko.com/>

**ORCID:** <https://orcid.org/0000-0002-9046-5893>

---

Curriculum Vitae

---

## TABLE OF CONTENTS

A. PERSONAL INFORMATION .....	3
B. EDUCATIONAL BACKGROUND .....	3
<i>Degrees</i> .....	3
University of Cambridge .....	3
Stanford University.....	3
C. PROFESSIONAL APPOINTMENTS.....	3
<i>Research Appointments</i> .....	3
<i>Other Appointments</i> .....	4
D. RESEARCH .....	4
<i>Ongoing Research Activities</i> .....	4
<i>Field Experience</i> .....	5
E. AWARDS AND HONORS.....	5
<i>Awards</i> .....	5
<i>Honors</i> .....	5
F. SCHOLARLY PUBLICATIONS .....	6
<i>Peer Reviewed Publications</i> .....	6
Original Research (Peer-reviewed Journal Articles).....	6
Other (e.g., Peer-Reviewed Commentaries & Editorials).....	6
Books .....	7
Doctoral Thesis .....	7
Under Review .....	<b>Error! Bookmark not defined.</b>
<i>Reports</i> .....	7
<i>Digital Publications</i> .....	7
<i>Annotated Reading Lists</i> .....	8
G. GRANTS.....	8
<i>Current Funding</i> .....	8
<i>Pending/ Submitted Funding</i> .....	<b>Error! Bookmark not defined.</b>
<i>Past Funding</i> .....	8
H. TEACHING/ ADVISING EXPERIENCE .....	8
<i>Stanford University</i> .....	8
<i>Russell Sage Foundation</i> .....	9
<i>University of Cambridge</i> .....	9
I. COMMUNITY ENGAGEMENT .....	9
J. ADMINISTRATION.....	9
<i>Editorial Service</i> .....	9
<i>University Administrative Service</i> .....	9
<i>Service to Professional Organizations</i> .....	10
Membership .....	10
Committee Service .....	10
<i>Professional Development</i> .....	10
K. PRESENTATIONS .....	10
<i>Select Invited Presentations</i> .....	10
<i>Select National and Regional Meetings</i> .....	11
<i>Select Media Coverage</i> .....	12
L. COMMUNITY SERVICE .....	12

### COMMON ACRONYMS

- ELSI: Ethical, Legal, Social Implications
- GWAS: Genome-wide Association Study
- PGS: Polygenic Score
- RCR: Responsible Conduct of Research
- SCBE: Stanford Center for Biomedical Ethics
- STS: Science, Technology, Society

## A. PERSONAL INFORMATION

---

**Name:** Daphne Oluwaseun Martschenko, PhD (she, her, hers)  
**Title:** Assistant Professor  
**Address:** Stanford Center for Biomedical Ethics  
Edwards Research Building  
300 Pasteur Drive  
2nd Floor, Room R229  
Stanford, CA 94305-5417  
U.S.A.  
**Place of Birth:** London, United Kingdom  
**Citizenship:** USA  
**Languages:** English (Native), Russian (Advanced), Arabic (Elementary)

### Research Interests

(Bio)ethics; Ethical Legal and Social Implications (ELSI) Genetics; Responsible Conduct of Research (RCR); Science, Technology, and Society (STS); Community Engagement; Research Ethics; Postgenomic Era; Genetics and Society; Racial and Socioeconomic Inequality; Mixed-methods; Interdisciplinary Research; Adversarial Collaboration

### Areas of Teaching Competence

ELSI Genetics; (Bio)ethics; RCR; Research Ethics; STS; Genetics and Society; Sociology; Classical/Modern/Critical Social Theory; Mixed-methods; Community Engaged Methods; Adversarial Collaboration

### Skills

Mixed-methods Research; Thematic Analysis; Semi-structured Interviews; Focus Groups; Community Engagement; NVivo Qualitative Software; Secondary Data Analysis; Descriptive Statistical Analyses and Regression; R Statistical Programming; Public Speaking; British Broadcasting Company (BBC) Media Trained

## B. EDUCATIONAL BACKGROUND

---

### Degrees

#### University of Cambridge

##### PhD: Education

October 2015-July 2019

- *PhD Dissertation:* [The New Borderland: A Mixed-methods Examination of Teacher Perceptions of Intelligence, Race, and Socioeconomic Status in Relation to Behavior Genetics](#)
  - *Advisors:* Anna Vignoles (University of Cambridge), Jo-Anne Dillabough (University of Cambridge)
  - *Examiners:* Prudence Carter (University of California Berkeley), Ben Alcott (University of Cambridge)
- Culture, Politics, and Global Justice Research Group (CPGJ); Race, Empire, and Education (REE) Research Collective

##### MPhil (with distinction): Politics, Development, and Democratic Education

October 2014-October 2015

- *MPhil Dissertation:* Survival of the 'Gifted and Talented' The Narrative of Minority Underrepresentation, a Mixed-methods Approach
  - *Advisors:* Anna Vignoles (University of Cambridge)
  - *Examiners:* Hilary Cremin (University of Cambridge); Jo-Anne Dillabough (University of Cambridge)

#### Stanford University

##### Bachelor of Arts (with distinction): Anthropology (medical); Slavic Studies

September 2010-June 2014

- Phi Beta Kappa; GPA 3.88/4.0

## C. PROFESSIONAL APPOINTMENTS

---

### Research Appointments

**Assistant Professor**, Stanford University

November 2022-Present

- Member**, ClinGen Ancestry & Diversity Working Group *May 2021-Present*
- Serve on Ancestry & Diversity working group of ClinGen, a National Institutes of Health (NIH)-funded resource dedicated to building a central resource that defines the clinical relevance of genes and variants for use in precision medicine and research
  - Investigate how ancestry information is used in clinical genomics and provide guidance for the community about how best to use race, ancestry, and genomics in a way that is scientifically rigorous and ethically responsible
- Bio Futures Fellow**, Stanford University *November 2020-June 2021*
- Supported by Bio Policy & Leadership Initiatives at Stanford and the Department of Bioengineering with support from the [Stanford Ethics, Society, and Technology \(EST\) Hub](#).
  - Worked closely with [Dr. Megan J. Palmer](#), Executive Director of Bio Policy & Leadership Initiatives at Stanford as well as faculty and staff in Bioengineering, the Program in Science, Technology and Society (STS), the d.school, and other units
  - Co-designed teaching, research, and engagement initiatives at the interface of biotechnology, ethics, and public policy
- Postdoctoral Research Fellow**, Stanford University *August 2020-October 2022*
- Identify ethical, legal, and social considerations arising from genetics research and clinical practice and related policy recommendations to address these issues
  - Advocate for and facilitate cross-disciplinary research efforts that promote socially and ethically responsible production and communication of genetics/genomics
  - Lecture on core topics in research and clinical ethics, specializing in genetics/genomics, equity, and justice
- Consultant**, Stanford Research Ethics Consultation Service *August 2020-Present*
- Organize and facilitate research ethics consultations with a small team of researchers from the Stanford Center of Biomedical Ethics
  - Work with Stanford affiliates, national organizations and funding bodies, IRB institutions, and private companies to discuss key ethical challenges and concerns pertaining to scientific research or technologies
  - Draft and/or consult on consultation reports to disseminate to consultees
- Visiting Scholar**, Hastings Center & Yale Interdisciplinary Center for Bioethics *December 2018*
- Presented on the social and ethical implications of behavioral genomics for education
  - Met with key faculty at the Hastings Center & Yale Interdisciplinary Center for Bioethics
- Research Assistant**, Cambridge University *May 2018-September 2018*
- Collated data in preparation for analysis on LEGACY project, a multi-focus research study that explores learning gain in higher education through different longitudinal and cross-sectional mixed methodologies
- Other Appointments**
- Team Lead**, University of Chicago *August 2019-September 2020*
- Oversaw team conducting research and data analysis at the [Center for RISC](#) - an innovation lab committed to addressing some of society's most intractable issues; Under the mentorship of Professor Steven Levitt, coauthor of *Freakonomics*
  - Coordinated day-to-day logistics to enhance office communication and workflow
- Research Analyst**, University of Chicago *January 2019-August 2019*
- Conducted research and analysis at the [Center for RISC](#)
  - Employed radical innovation to bring new perspectives to pressing social issues in education, health care, and criminal justice reform; Worked with non-profits and government stakeholders to translate ideas into reality. Key projects included:
    - Advocating for teaching data science in school-based education; conducting secondary data analysis on the efficacy of current US mathematics education for workforce productivity and a survey of American adults experiences using high school math after graduation
    - Balancing advancements in technology and social media with key ethical considerations to improve individual well-being and mental health

---

## D. RESEARCH

### Ongoing Research Activities

#### Community Engagement

- To solicit community perspectives on the role and relevance of genomics in clinical care and society

- To facilitate socially and ethically responsible research and research communication through community-engaged efforts
- To inform clinical care services and research design through the incorporation of community perspectives and feedback

#### Adversarial Collaboration

- To develop an applied ethics research framework that addresses the limitations of embedded ethics, research ethics consultations, and consensus conference approaches
- To generate productive dialogue on the risks, benefits, and ethical responsibilities of genetics/genomics
- To develop best practices and ethical guidelines in partnership with individuals of different disciplines and research paradigms
- To facilitate socially and ethically responsible research and research communication

#### Genetics, Race, Ethnicity, and Ancestry

- To ensure race is not posited as a biological category responsible for social inequality
- To prevent the conflation of race and ancestry
- To encourage researchers to acknowledge and confront the eugenic history underpinning genomics and instill proactive measures to prevent the misuse and misapplication of genetics

#### Genetics and Education

- To assess the social and ethical implications of the advent of molecular genomics in education
- To develop and evaluate resources and materials that facilitate the responsible interpretation and application of genomic prediction technologies. For example, I co-constructed a repository of FAQs associated with GWAS in social/behavioral genomics that was featured in Nature Genetics
- To foster educational stakeholders' and public communities' genomic literacy to prevent genetic essentialism and biological determinism

#### Methodological Limitations of Genomic Prediction

- To stymy overly optimistic interpretations of genome-wide association studies (GWAS) and polygenic scores (PGS)
- To evaluate the impacts of communication on the methodological limitations of genomic prediction technologies on individuals' understandings of genomics

#### Field Experience

##### Doctoral Fieldwork,

*September 2016-May 2017*

[The New Borderland: A Mixed-methods Examination of Teacher Perceptions of Intelligence, Race, and Socioeconomic Status in Relation to Behavior Genetics](#)

Mixed-Methods: Focus Groups; Semi-Structured Interviews; National Survey

Fieldwork: PreK-8 public charter school and a PreK-8 private gifted education school in the Chicago, IL area

##### MPhil Fieldwork,

*January 2015-June 2015*

[Survival of the 'Gifted and Talented' The Narrative of Minority Underrepresentation, a Mixed-methods Approach](#)

Mixed-Methods: Semi-structured Interviews; Semiotic Methods; Secondary Data Analysis and Program Evaluation

Fieldwork: School district in the DC-Maryland-Virginia area

## E. AWARDS AND HONORS

---

#### Awards

YEAR	ITEM	AMOUNT
2015-18	Schultz Bursary Award, <i>Cambridge University</i>	40,000GBP
2015-18	Cambridge Trust Scholarship, <i>Cambridge University</i>	42,000GBP
2017	Bye-Fellowship Finalist, <i>Magdalene College, Cambridge University</i>	
2015	Santander Award for MPhil Distinction, <i>Cambridge University</i>	250GBP
2014-15	Horobin Award, <i>Homerton College, Cambridge University</i>	20,000GBP
2014-15	NCAA Postgraduate Scholarship	7,000USD

#### Honors

YEAR	ITEM
2014	Phi Beta Kappa, Donald M. Kennedy Award for Academic and Athletic Excellence, Pac12

2012-14	Champion <i>Stanford University</i> Pacific Coast Conference (Pac-12) All-Academic Rowing Team, Collegiate Rowing Coaches Association Scholar Athlete Award
2011-14	Dean's Award for Academic Excellence, <i>Stanford University</i>

## F. SCHOLARLY PUBLICATIONS

---

### Peer Reviewed Publications

#### Original Research (Peer-reviewed Journal Articles)

1. Wand, H.\* , **Martschenko, D. O.\***, Smitherman, A., Michelson, S., Pun, T., Witte, J.S., Scott, S.A., Cho, M.K., Ashley, E.A. Re-envisioning Community Genetics: Community Empowerment in Preventive Genomics (2022). *Journal of Community Genetics*  
<https://link.springer.com/article/10.1007/s12687-023-00638-y>
2. **Martschenko, D.** Normalizing Race in Gifted Education: Public Education, Genomics, and Spaces of White Exceptionalism (2021). *Critical Studies in Education*  
<https://www.tandfonline.com/doi/abs/10.1080/17508487.2021.1978517>
3. **Martschenko, D.** (2021) The Elephant in the Room: Social Responsibility in the Production of Sociogenomics Research. *Biosocieties*  
<https://doi.org/10.1057/s41292-021-00239-3>
4. **Martschenko, D.** (2020). Embodying Biopolitically Discriminate Borders: Teachers' Spatializations of Race and Power. *Discourse: Studies in the Cultural Politics of Education*  
<https://doi.org/10.1080/01596306.2020.1813089>
5. **Martschenko, D.** (2019). 'DNA Dreams' Teachers' Perceptions on the Role and Relevance of Genetics for Education. *Research in Education*  
<https://journals.sagepub.com/doi/full/10.1177/0034523719869956>
6. **Martschenko, D.**, Domingue, B., Trejo, S. (2019). Genetics and Education: Recent developments in the context of an ugly history and an uncertain future. *AERA Open*  
<https://journals.sagepub.com/doi/full/10.1177/2332858418810516>

#### Other (e.g., Peer-Reviewed Commentaries & Editorials)

1. Gordon, R.L., **Martschenko, D.O.**, Nayak, S., Niarchou, M., Morrison, M.D., Bell, E., Jacoby, N., Davis, L.K. Confronting Ethical and Social Issues Related to the Genetics of Musicality (2022). *Annals of the New York Academic of Sciences* <https://nyaspubs.onlinelibrary.wiley.com/doi/10.1111/nyas.14972>
1. **Martschenko, D.O.**, Towards an Intersectional Bioethics: Learning from Social Activist Movements Like Black Lives Matter (2022). *Journal of Medical Humanities*  
<https://link.springer.com/article/10.1007/s10912-023-09783-4>
2. Sabatello, M., **Martschenko, D. O.**, Cho, M. K. & Brothers, K. B. Data sharing and community-engaged research. *Science* 378, 141–143 (2022).  
<https://www.science.org/doi/10.1126/science.abq6851>
3. **Martschenko, D.O.**, Young, J.L. (2022) Precision Medicine Needs to Think Outside the Box. *Frontiers in Genetics*  
<https://www.frontiersin.org/article/10.3389/fgene.2022.795992>
4. **Martschenko, D. O.**, & Trejo, S. (2022). Ethical, Anticipatory Genomics Research on Human Behavior Means Celebrating Disagreement. *Human Genetics and Genomics Advances*  
<https://doi.org/10.1016/j.xhgg.2021.100080>
5. **Martschenko, D. O.**, Domingue, B.W., Trejo S., Matthews L. J. (2021) FoGS Provides an Open-Access Repository of FAQs on Human Genomics Studies. *Nature Genetics*  
<https://www.nature.com/articles/s41588-021-00929-5>
6. **Martschenko, D.**, Martinez-Martin, N. (2021). What About Ethics in Design Bioethics? *American Journal of Bioethics*  
<https://www.tandfonline.com/doi/full/10.1080/15265161.2021.1915415>
7. **Martschenko, D. O.**, and Smith, M. (2021). "Genes Do Not Operate in a Vacuum, and Neither Should Our Research." *Nature Genetics*.  
<https://doi.org/10.1038/s41588-021-00802-5>
8. **Martschenko, D.** (2020). 'The Train Has Left the Station': The Arrival of the Biosocial Sciences in Education. *Research in Education*  
<https://journals.sagepub.com/doi/10.1177/0034523720914636>

## Books

1. Trejo, S., **Martschenko, D.O.**, Debating DNA (in-progress, Expected 2024). Princeton University Press

## Doctoral Thesis

1. **Martschenko, D.** (2019). The New Borderland: A Mixed-methods Examination of Teacher Perceptions of Intelligence, Race, and Socioeconomic Status in Relation to Behavior Genetics (Doctoral Thesis). *University of Cambridge*  
<https://doi.org/10.17863/CAM.40448>

## Accepted – Forthcoming

1. **Martschenko, D. O.\***, Wand, H.\* , Young, J. L.\* & Wojcik, G. L.\* (accepted - forthcoming) Mind the gap: how multiracial individuals get left behind when we talk about race, ethnicity, and ancestry in genomic research. *Nature Genetics*. Preprint: <http://arxiv.org/abs/2205.00027>
2. **Martschenko, D.O.** Callier, S.L., Garrison, N.A., Lee, S.S., Turley, P., Meyer, M.N., Parens, E. Wrestling with Public Input on an Ethical Analysis of Scientific Research (accepted - forthcoming) *Hastings Center Report*
3. Meyer, M.N., Appelbaur, 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, D.O.**, Neale, B.M., Palmer, R.H.C., Tabery, J., Turkheimer, E., Turley, P., Parens, E. Wrestling with Social and Behavioral Genomics: Risks, Potential Benefits, and Ethical Responsibility (accepted - forthcoming) *Hastings Center Report*
4. Trejo, S., **Martschenko, D.O.** (accepted- forthcoming) Beware the phony horserace between genes and environments. *Brain and Behavioral Sciences*
5. **Martschenko, D.O.**, Sociogenomics and the Ethics of (in)Visibility (accepted - forthcoming) in Science and Technology Studies and Health Praxis: Genetic Science and New Digital Technologies. *Bristol University Press*

## Under Review

1. Matthews, L.\* , **Martschenko, D. O.\***, Sabatello, M. Genomic Research on Human Behavior: The Urgency for Intersectionality (submitted September 2022). *Genetics in Medicine*
2. Matthews, L.\* , Choi, J., **Martschenko, D. O.\*** Schoolhouse Risk: on mitigating the potentially negative psychosocial harms of polygenic scores for educational attainment (submitted January 2023). *Social Psychology of Education*

## Reports

1. **Martschenko, D. O.**, Matthews, L. J. (2020). Genomics, Behavior, and Social Outcomes. *Hastings Center*.  
<https://www.thehastingscenter.org/briefingbook/genomics-behavior-and-social-outcomes/>
2. Duraiappah, A.K\* ., Atteveldt, N.M. van\* , Borst, G., Bugden, S., Ergas, O., Gilead, T., Gupta, L., Mercier, J., Pugh, K., Singh, N.C. and Vickers, E. A. (eds.) (2022) Reimagining Education: The International Science and Evidence based Education Assessment. New Delhi: UNESCO MGIEP. Contributing Author to Chapter on “Education and Human Flourishing”  
<https://bit.ly/3FHnlQE>

## Digital Publications

### Bioethics.Net

- September 2021: [Why care about social and behavioral genomics?](#)
- June 2021: [Multiracial Healthcare: What About Us?](#)

### Hastings Center Bioethics Forum

- January 2020: [Transcending Borders in the Ethical Oversight of Human Genome Editing](#)

### BOLD-Blog

- May 2019: [What does genetics mean for educational equity?](#)

### Faculty of Education Research Students’ Association

- January 2019: [The Challenges of Research Access and Accessible Research](#)
- November 2017: [Race, Education, and Empire: A Research Collective](#)  
Reposted by The Sociological Review
- February 2017: [Historically Burdened Concepts in Education](#)

### Culture, Politics, and Global Justice (2019)

- January 2019: [Breaking Down Academic Silos: An Example From a Historically-burdened Field](#)

### The Independent, London, United Kingdom

- January 2018: [The IQ Test Wars: Why Screening for Intelligence is Still So Controversial](#)

## The Conversation UK, London, United Kingdom

- January 2017: [Biosocial Science: The murky history of the nature and nurture debate](#)
- July 2016: [Can genes really predict how well you'll do academically?](#)
- April 2016: [Genetics: What it is that makes you clever and why it's shrouded in controversy](#)

## Center for Genetics and Society, Berkeley, California

- October 2016: [Collaborative Science on Historically Burdened Concepts: Intelligence, Genetics, Race & Socio-economic Status](#)

## Annotated Reading Lists

- Donovan, Brian M., **Martschenko, D. O.** (2021). Race, Genetics, and Genetics Education. ELSIhub Collections. <https://elsihub.org/news/elsihub-collections-race-genetics-and-genetics-education>

---

## G. GRANTS

---

### Current Funding

YEAR	ITEM	ROLE
2021-22	Pilot Grant Program (RM1HG007257), <i>Columbia University Center for Research on ELSI of Psychiatric, Neurologic &amp; Behavioral Genetics, Columbia University Precision Medicine &amp; Society</i>	Co-Investigator

**Principal Investigator:** Lucas J. Matthews

YEAR	ITEM	ROLE
2022	Pilot Grant Program (54420-5763102), <i>Columbia Population Research Center</i>	Co-Principal Investigator

**Co-Principal Investigators:** Daphne Martschenko, Sam Trejo, Marissa Thompson, AJ Alvero

### Past Funding

YEAR	ITEM	ROLE
2020-2021	Pilot Grant Program (RM1HG007257), <i>Columbia University Center for Research on ELSI of Psychiatric, Neurologic &amp; Behavioral Genetics</i>	Co-Investigator

**Principal Investigator:** Paul Appelbaum

---

## H. TEACHING/ADVISING EXPERIENCE

---

### Stanford University

**Teaching Assistant and Facilitator, MED255, Stanford, California** *August 2020-Present*  
Required training course for all new graduate students, principal investigators, and federal research grantees on the foundations of responsible conduct of research

- Oversee small-group instruction for Responsible Conduct of Research (MED 255) course at the Stanford School of Medicine

**Guest Lecturer, HumBio 2B, Stanford, California** *November 2021, 2022*  
Course provides overview of human origins, demographic patterns and trends, the development of social structures, and the transmission of cultural practices. highlight issues of inequality, justice, and what it means to be social creatures. Required for undergraduate majors in human biology.

- Delivered guest lecture on social responsibility in human genetics

**Teaching Assistant and Lecturer, HumBio 174, Stanford, California** *January 2021-March 2021*  
Elective course for undergraduate majors in human biology on the ethics of medicine and research on human subjects, social and behavioral genetics, stem cell research, and end of life. Required course for students in the Stanford Genetic Counseling program

- Familiarized students with foundational concepts in research and clinical ethics alongside Professor David Magnus
- Developed students' understandings of Social and Behavioral Genomics in lectures

**Guest Lecturer, Race in Science, Technology, and Medicine, Stanford, California** *October 2020*  
Elective course co-sponsored by 19 departments and programs across Stanford campus. Brings together scholars of color to explore intersections of race, racism, and scientific practice.

- **Moderated Talk:** Bones, Genomics, and the Ethics of (In)visibility
- **Presentation:** Genetics at the Schoolhouse Door: The Dreams and Necessities of Equitable Education



## Russell Sage Foundation

**Instructor**, *Summer Institute in Social Science Genomics*, Stowe, Vermont

August 2021

Summer course for advanced PhD students, postdocs, and early career professors who are interested in incorporating genomic data in their research.

- Instructor on the Ethical, Legal, and Social Implications of genetics/genomics

## University of Cambridge

**Teaching Assistant**, Introduction to Sociology, Cambridge, UK

October 2017-June 2018

- Guest lectured “Introduction to Sociology Part I” and “Introduction to Sociology Part II” courses
- Developed students’ understandings of classical sociological theorists in Part I and intersectional, feminist, and decolonial sociological frameworks in Part II.

**Instructor**, *Ringle English Tutoring*, Seoul, Korea

November 2016-January 2019

- Instructed English to business professionals and university students from South East Asia through 1:1 online classes; Offered essay and CV editing services

## I. COMMUNITY ENGAGEMENT

---

**Steering Committee Member**, The Hastings Center & Geisinger

March 2020-Present

- Serve on steering committee member for interdisciplinary and collaborative three-year grant project entitled “Wrestling with Social/Behavioral Genomics: Risks, Potential Benefits, and Ethical Responsibility”
- Consider the risks and potential benefits of social/behavioral genomics, the history of eugenics and scientific racism, and health equity
- Chair the Sounding Board Committee, a 13-person group of non-academic community members from across the US
- Oversee community engagement on the risks, potential benefits, and ethical responsibilities of social and behavioral genomics

**Member**, ClinGen DEI Action Plan Writing Group

August 2021-Present

- Assist with development of ClinGen DEI Action Plan and ClinGen’s plans for diversity.
- Outline and implement strategies, goals, and deliverables for ClinGen that positively impact Diversity, Equity, and Inclusion in clinical genetics.

**Co-Facilitator**, Stanford University Healthcare Preventive Genomics PFAC

May 2021-Present

- Co-facilitate Patient and Family Partner Program (PFAC) on the inclusion of polygenic scores (PGS) in cardiovascular preventive health services
- Co-organized focus groups with PFAC members to discuss topics such as return of results, consent, access and equity that will shape the implementation of PGS in clinical settings

## J. ADMINISTRATION

---

### Editorial Service

**Special Issue Editor**, *Journal of Community Genetics*

November 2021-Present

- Guest editor for Special Issue [Global accessibility and applicability of polygenic scores](#). The issue examines developing PGS for use in diverse populations, ethical, legal and social issues in the use of PGS models, and policy issues surrounding the translation of polygenic analyses in healthcare

**Associate Editor**, *Research in Education*

November 2020-November 2022

**Special Issue Editor**, *Research in Education*

June 2018-August 2020

- Guest editor for Special Issue [Education, Biosocial Sciences, and the Popular Imagination](#). The issue examines the threats and possibilities to equitable public education posed by contemporary research in the biosocial sciences

### University Administrative Service

**Co-organizer**, *Race, Empire, and Education Research Collective*

January 2017-Present

- Organize reading list, term calendar, and session facilitators for [research collective](#) interested in the role of race, racialization, and empire within education

**Co-founder**, *International Black Radicalism Research Group*, Cambridge, UK

May 2018-June 2019

- Co-founded graduate [research group](#) funded by the Cambridge University Centre for Research in the Arts, Social Sciences, and Humanities
- Organize bi-weekly reading groups and speaker events focused on the historical and present outlook of international black radicalism

**Workshop Coordinator**, *Cambridge University*, Cambridge, UK

*November 2014*

- Organized and led an open methodologies workshop on racial disparities in education for Politics, Development, and Democratic Education MPhil; applied critical social and race theory

## Service to Professional Organizations

### *Membership*

#### **Current**

- American Society for Human Genetics (ASHG)  
*Affinity Groups:* Ethical, Legal & Social Implications
- American Society for Bioethics and the Humanities (ASBH)  
*Affinity Groups:* Ethical, Legal & Social Implications; Race & Culture/Ethnicity

#### **Past**

- Behavior Genetics Association (BGA)
- American Educational Research Association (AERA)  
*Affinity Groups:* Social Context of Education; Critical Examination of Race, Ethnicity, Class, and Gender in Education; Mixed Methods Research; Research on Giftedness, Creativity, and Talent
- British Educational Research Association (BERA)

### *Committee Service*

- ASBH Advisory Committee for Race & Culture/Ethnicity Affinity Group

## Professional Development

- 2022 Student–Program Evaluation, University of California San Francisco
- 2022 Auditor–Introduction to R, Stanford University
- 2020-Present Attendee–Postdoctoral Pedagogy Journal Club, Stanford Center for Postdoctoral Affairs, Stanford University
- 2020-Present Student–Stanford University Office of Postdoctoral Affairs Teaching Certification Program
- 2021 Student–Qualitative and Mixed Methods Research, University of California San Francisco
- 2020 Attendee–Design Your Postdoc, Stanford Center for Postdoctoral Affairs, Stanford University
- 2020 Auditor–Human Molecular Genetics, Stanford School of Medicine, Stanford University
- 2016 Student–Introduction to R Statistical Programming, University of Cambridge

## K. PRESENTATIONS

---

### Select Invited Presentations

**Stanford University, Medical Genetics Grand Rounds**

*November 2022*

*Stanford, California*

- **Presentation:** Out from the Shallows, Into the Deep: Community Empowerment in Preventive Genomics

**National Institutes of Health, Office of Minority Health**

*September 2022*

*Virtual*

- **Presentation:** Community Empowerment in Preventive Genomics

**University of Colorado, Boulder Institute for Behavior Genetics**

*September 2022*

*Boulder, Colorado*

- **Presentation:** Ethical, Anticipatory Genomics Research Celebrates Disagreement

**Columbia University, Irving Institute for Clinical and Translational Research**

*February 2022*

*Virtual*

- **Presentation:** Ethical, Anticipatory Genomics Research Celebrates Disagreement

- National Center for Complementary and Integrative Health** *August 2021*  
*Virtual*  
  - **Presentation:** Beyond Race? Genomics in the Context of an Ugly History and Uncertain Future**National Institutes of Mental Health** *April 2021*  
*Virtual*  
  - **Presentation:** Beyond Race? Genomics in the Context of an Ugly History and Uncertain Future**National Institutes of Health, Department of Bioethics** *April 2021*  
*Virtual*  
  - **Presentation:** Disrupting Silos: Adversarial Collaboration in Genetics and Genomics**Current Issues in Genetics, Stanford Department of Genetics** *February 2021*  
*Virtual*  
  - **Presentation:** Genes Don't Operate in a Vacuum, Neither Should Research**Behavioral Genetics, Genomics, and Ancestry, Early Intervention Foundation** *February 2021*  
*Virtual*  
**ELSI Friday Forum, CERAS ELSI Hub** *December 2020*  
*Virtual*  
  - **Panel:** "Addressing Racism in Research and Clinical Practice" alongside Rhea Boyd, MD and Robert D. Steiner, MD**Summer DEMSEM: Population Science in Critical Perspective, University of Wisconsin** *May 2019*  
*Madison, Wisconsin, USA*  
  - **Panel:** The Use and Production of Demographic Research
  - **Presentation:** The New Borderland: Genetics at the Schoolhouse Door**Polygenic Prediction and Its Application, Social Science Genetic Association Consortium** *November 2018*  
*Los Angeles, California, USA*  
  - **Presentation:** "Adversarial Collaboration in the Context of an Ugly History and an Uncertain Future"
- Select National and Regional Meetings**
- American Society for Human Genetics** *October 2021, 2022*  
*Los Angeles, California, USA*  
  - **2022 Invited Session** (co-moderator): Upset the Set Up: From Community Engagement to Community Empowerment including Markia Smith, Joseph Yracheta, Robbee Wedow, Janina Jeff, Maya Sabatello*Virtual*  
  - **2021 Invited Session** (co-moderator, online): Gatekeeping Genetics: Towards a More Diverse, Just, and Inclusive Research Enterprise including Markia Smith, Russell Ledet, Deanna Darnes, Catherine Potenski**ELSI Congress** *June 2022*  
*Virtual*  
  - **Panel** (moderator) What can intersectionality bring to ELSI?: Transforming Theory into Practice, including Lucas J. Matthews, Krystal Tsosie, Maya Sabatello
  - **Panel** (co-moderator) Out of the tower and onto the ground: Engaging communities and scientists in emergent research priorities, including Sandra Lee, Sara Ackerman, Julia Brown, Keolu Fox**American Society for Bioethics & the Humanities** *October 2020–2022*  
*Portland, Oregon*  
  - **2022 Workshop** (primary organizer): Intersectionality is a Buzzword: But What Does It Mean for Bioethics? Including Jennifer James and Uchenna Anani*Virtual*  
  - **2021 Panel** (moderator): Genetically-informed Education: The problem or the cure to essentialism, racism, and ableism? including Lucas J. Matthews, Maya Sabatello, Robbee Wedow
  - **2021 Paper:** Perspectives of Genomicists and ELSI Researchers on Using Interdisciplinary Research to Enhance Social and Ethical Responsibility
  - **2020 Panel** (moderator): Polygenic Scores and Equitable Education - Threats and Possibilities, including Katherine Paige Harden, Lucas J. Matthew, Peter Fortheringham**International Society of Psychiatric Genetics** *October 2021*  
*Virtual*

- **Invited Session** (panelist): Ethics Symposium, including Holly Peay, Maya Sabatello, Lea Davis, Carina Seah, Jean-Marie Bradford

**Behavior Genetics Association**

*June 2021*

*Virtual*

- **Invited Session:** Adversarial Collaboration in the Context of Genomics' Ugly History and Uncertain Future

**Columbia University Precision Medicine & Society**

*May 2021*

*Virtual*

- **Presentation:** "The Elephant in the Room": Social Responsibility in the Production of Sociogenomics

**American Educational Research Association**

*April 2018*

*New York City, New York, USA*

- **Symposium** (moderator): "Dystopian DNA? Public Education, Genetics and the Popular Imagination," including Prudence Carter, Oliver Rollins, Claire Crawford.  
**Paper:** "DNA Dreams: Behavior Genetics and the Re-inscription of Bio-determinism in Education."

**Race, Empire, and Education,**

*February 2018*

*Cambridge, United Kingdom*

- **Panel** (moderator): "What does it mean to be human? The crisis of humanism in education," including Deborah Yudell, Arathi Sriprakash
- **Paper:** "Genetics and Popular Imagination."

**British Sociological Association,**

*September 2017*

*Cambridge, United Kingdom*

- **Paper:** "Normalizing Race in Gifted Education Through Biopower: Public Education, Segregation, and Spaces of White Exceptionalism."

Select Media Coverage

**The Genetics Podcast**

*October 2020*

- [Genomics in Education and the Social Sciences](#)

**Washington Post**

*December, 2020*

- [Algebra II just doesn't add up when you figure how little it means to most students](#)

**Freakonomics Radio**

*October 2019*

- [America's Math Curriculum Doesn't Add Up](#) (Ep. 391) discusses the need for data science education in K12 math curriculum and strategies for bringing about change

**Nature**

*October, 2019*

- [The promise and peril of the new science of social genomics](#)

**Science Daily**

*February, 2019*

- [As genetic data expand, researchers urge caution in how predictors of education outcomes are used](#)

**This Cambridge Life**

*May 2018*

- [The star rower whose research examines teachers' perceptions of intelligence](#)

**Drive Time Podcast**

*April 2018*

- [IQ Tests- How Intelligent Are You?](#) discusses the ugly history behind the study of intelligence and IQ testing and historical and current uses of IQ tests

**Anthill Podcast**

*September 2018*

- [Inheritance](#) discusses the ugly history behind the study of intelligence and the necessity of adversarial collaboration

**BBC Sport**

*March 2016*

- [Boat Races 2016: Daphne Martschenko has travelled a long way to reach Cambridge](#)

## L. COMMUNITY SERVICE

---

**Member, Stanford Center for Biomedical Ethics JEDI Committee**

*July 2021-Present*

- Promote diversity and inclusion within the School of Medicine and throughout the entire Stanford community through education, research, training, clinical service, and programming
- Spark dialogue around the structures of inequality in the field of science and society
- Increase awareness of the diversity issues in medicine by addressing barriers and challenges
- Promote the wellbeing of Stanford community by embracing multiple perspectives and backgrounds and creating an environment that cultivates unity, respect, and understanding

- Board of Directors**, Blueprint Schools Network, Needham, MA *June 2021-Present*
- Serve on board for nonprofit organization that uses a research-based framework of comprehensive reform strategies to accelerate student achievement in schools across the country
- Member**, Black in Genetics *October 2020-Present*
- Dedicated to amplifying voices and work by Black-identifying geneticists across the US and beyond
  - Participate in #BlackinGeneticsWeek and build a [community](#) that celebrates Blackness and the field of Genetics
- Committee Member**, HOCR/Gold Cup Grant Committee, Boston, MA *September 2020-September 2022*
- Facilitate funding and mentorship support to youth rowing programs committed to racial and socioeconomic diversity in rowing
- Board of Directors**, Stanford Rowing Association, Stanford, CA *January 2021-January 2022*
- Co-direct 5013(c) to support current student-athletes and alumni of Stanford Rowing
- President**, *Cambridge University Women's Boat Club*, Cambridge, UK *May 2017-June 2018*
- Led the Cambridge University Women's Boat Club in preparation for 2018 Boat Race against Oxford
  - Oversaw rowing programming, culture and ethos, club administration, fundraising, and media communications
- Director and Committee Member**, *Camp Phoenix*, Oakland, CA *June 2013- June 2018*
- Served on Marketing and Analysis and Program Evaluation committees of [Camp Phoenix](#), a non-profit academic sleep-away summer camp for low-income youth in the Bay Area; Analyzed funding and donor data and evaluated the impact of Phoenix's academic programming on student achievement
  - Worked as Summer Director in 2018, overseeing a staff of 50 and a cohort of 80+ children; Oversaw program finances, scheduling, staff training, and communications
  - Employed as a counselor (2013), senior counselor and teaching assistant (2014-15), Operations Director (2016)
- Captain**, *Stanford University Women's Rowing*, Stanford, California *May 2013-June 2014*
- Led Stanford Women's Rowing to its first Pac-12 Championship
  - Oversaw rowing program culture and ethos
- Advisor**, Stanford University Partners in Academic Excellence *September 2012-June 2014*
- Oversaw incoming freshmen undergraduate students at Stanford University in their transition to collegiate-level academics and athletics
- Advisor**, Stanford University Black Recruitment and Orientation Committee *September 2012-June 2014*
- Mentored incoming racially-defined minority freshmen undergraduate students at Stanford University in their transition to the academic, social, and cultural environment of Stanford