



## Nicole Martinez-Martin

Assistant Professor (Research) of Pediatrics (Biomedical Ethics) and, by courtesy, of Psychiatry and Behavioral Sciences (Child & Adolescent Psychiatry & Child Development)

Pediatrics - Center for Biomedical Ethics

### Bio

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#### BIO

Nicole Martinez-Martin received her JD from Harvard Law School and her doctorate in social sciences (comparative development/medical anthropology) from the University of Chicago. Her broader research interests concern the impact of new technologies on the treatment of vulnerable populations. Her graduate research included the study of cross-cultural approaches to mental health services in the Latine community and the use neuroscience in criminal cases. Her recent work in bioethics and neuroethics has focused on the ethics of AI and digital health technology, such as digital phenotyping or computer vision, for medical and behavioral applications.

She has served as PI for research projects examining ethical issues regarding machine learning in health care, digital health technology, digital contact tracing, and digital phenotyping. She has examined policy and regulatory issues related to privacy and data governance, bias and oversight of machine learning and digital health technology. Her K01 career development grant, funded through NIMH, focuses on the ethics of machine learning and digital mental health technology. Recent research has included examining bias, equity and inclusion as it pertains to machine learning and digital health, as well as social implications of privacy and data protections on marginalized groups.

#### ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Pediatrics - Center for Biomedical Ethics
- Assistant Professor (Research) (By courtesy), Psychiatry and Behavioral Sciences - Child & Adolescent Psychiatry and Child Development
- Member, Wu Tsai Neurosciences Institute

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Neuroethics Framework - Legal System Working Group, Co-Chair, IEEE (2020 - present)
- Ethics Committee, International Society for Psychiatric Genetics (2019 - present)
- Program Committee, co-chair, International Neuroethics Society (2020 - present)
- Emerging Issues Task Force - Chair, International Neuroethics Society (2021 - present)
- Diversity & Inclusion Task Force, International Neuroethics Society (2020 - present)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

NIH/National Institute of Mental Health

K01 MH118375-01A1

“Ethical, Legal and Social Implications in the Use of Digital Technology for Mental Health Applications”

Greenwall Foundation Making a Difference in Bioethics Grant

“Ethical, Legal and Social Implications of Digital Phenotyping”

## Teaching

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### COURSES

#### 2023-24

- Introduction to Science, Technology & Society: STS 1 (Win)
- Where Does it Hurt?: Medicine and Suffering in Global Context: COLLEGE 108 (Spr)

#### 2022-23

- Introduction to Science, Technology & Society: STS 1 (Win)
- Where Does it Hurt?: Medicine and Suffering in Global Context: COLLEGE 108 (Spr)

#### 2021-22

- Introduction to Science, Technology & Society: CSRE 1T, STS 1 (Spr)

#### 2020-21

- The Public Life of Science and Technology: CSRE 1T, STS 1 (Win)

## Publications

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### PUBLICATIONS

- **Dimensions of Research-Participant Interaction: Engagement is Not a Replacement for Consent.** *The Journal of law, medicine & ethics : a journal of the American Society of Law, Medicine & Ethics*  
Shearer, E., Martinez, N., Magnus, D.  
2020; 48 (1): 183–84
- **What Are Important Ethical Implications of Using Facial Recognition Technology in Health Care?** *AMA journal of ethics*  
Martinez-Martin, N.  
2019; 21 (2): E180–187
- **Data mining for health: staking out the ethical territory of digital phenotyping** *NPJ DIGITAL MEDICINE*  
Martinez-Martin, N., Insel, T. R., Dagum, P., Greely, H. T., Cho, M. K.  
2018; 1
- **Is It Ethical to Use Prognostic Estimates from Machine Learning to Treat Psychosis?** *AMA journal of ethics*  
Martinez-Martin, N., Dunn, L. B., Roberts, L. W.  
2018; 20 (9): E804–811
- **Surveillance and Digital Health.** *The American journal of bioethics : AJOB*  
Martinez-Martin, N., Char, D.  
2018; 18 (9): 67–68
- **Ethical Issues for Direct-to-Consumer Digital Psychotherapy Apps: Addressing Accountability, Data Protection, and Consent** *JMIR MENTAL HEALTH*  
Martinez-Martin, N., Kreitmair, K.  
2018; 5 (2): e32