

Good Morning. Welcome to our first ethical and responsible AI seminar series.

Due to the proliferation of Artificial intelligence (AI) and machine learning (ML) nowadays, AI in healthcare has made significant progress and have achieved human-level performance in skin cancer classification, diabetic retinopathy detection, chest radiograph diagnosis, sepsis treatment, etc. While existing results are encouraging, not too many clinical AI solutions are deployed in hospitals or actively utilized by physicians. A major problem is that existing clinical AI methods are less trustworthy leading to misinformation, misdiagnosis, maltreatment, and disparities due to algorithmic and societal biases present in the development pipeline. For example, the existing methods are biased to specific ethnic groups which result in unfair predictions that are less reliable to other ethnic groups.

As the part of training to investigators, medical professionals and graduate students. We have recently received two major awards including NSF Expand AI CAP for building an AI institute for trustworthy AI in medical systems and RCMI supplement. NSF award is focused on building capacity at Meharry to improve AI research and supplement award focuses on providing training to healthcare professionals, researchers, and students on ethical AI in Meharry. This seminar series is the part of our initiative under both the awards.

Imanni Sheppard, Ph.D., Assistant Professor, and Co-Director, Bioethics and medical humanities thread, UIUC Carle Illinois College of Medicine, Director of Medical Education and Social Scientific Research The Medical Humanities and Health Disparities Institute

Dr. Sheppard is an alumna of the University of New Orleans and the University of Houston— where she received her Bachelors degree in biological anthropology and her Masters degree in medical anthropology, respectively. Thereafter, she continued her education at the University of Texas Medical Branch where (upon graduation) she became the first African American in the United States with a Ph.D. in the medical humanities. Additionally, Dr. Sheppard is a member of Xavier University's Community Advisory Board for the College of Pharmacy's Center for Minority Health and Health Disparities Research and Education, an op-ed fellow, and a newly appointed ambassador for the Association of American Medical Colleges' Collaborative for Health Equity: to Act, Research, and Generate Evidence (CHARGE). Dr. Sheppard's scholarly works include authorship of: Health, Healing, and Hurricane Katrina: A Critical Analysis of Psychosomatic Illness in Survivors; "Embodied Trauma and the Dissociation of the Self" in Dark Denials and Domestic Violence; presentation of her work entitled "Medical Inequity and Health Disparities as Thanato politics: The Socio-medical Impact of Intergenerational Racialization" at the Sorbonne University in Paris, France; and a the book "The Parallax of Medical "Progress."

The Q&A session will be at 11.50 pm followed by a post-survey for the audiences.

Post survey: <https://forms.office.com/r/1nEAjYSbn4>