

LIGHTNING TALKS

Angelique Taylor

Title: Safety-Critical Social Navigation for Mobile Robots in the Emergency Department

Bio: Angelique Taylor is a PhD Candidate in the Healthcare Robotics Lab in the Computer Science and Engineering department at the University of California San Diego. She works under the direction of Dr. Laurel Riek. Her research lies in the intersection of computer vision, robotics, healthcare, and artificial intelligence. Her work aims to design perception and decision-making algorithms that enable robots to interact and work with groups of people in safety-critical environments. She is also a National Science Foundation GRFP Fellow, Arthur J. Schmitt Presidential Fellow, GEM Fellow, Google Anita Borg Memorial Scholar, National Center for Women in Information Technology (NCWIT), Microsoft Dissertation Grant, and Grace Hopper Celebration of Women in Computing (GHC) Scholar.

Xinkun Nie

Title: Learning When-to-Treat Policies

Bio: Xinkun Nie is a 5th year PhD student in Computer Science at Stanford University. Her research interests include causal inference with machine learning, data-driven decision-making under uncertainty, and policy applications in poverty alleviation and climate change.

Niranjani Prasad

Title: Reinforcement Learning for Clinical Decision-Making in the ICU

Bio: Niranjani Prasad is a senior researcher at Microsoft Research Cambridge, developing machine learning methods to support interventions in online mental health services. Prior to joining Microsoft, she completed her PhD in Computer Science at Princeton University, advised by Professor Barbara Engelhardt, where her work centred on clinician-in-loop sequential decision-making in the critical care setting.

Sonali Parbhoo

Title: Treatment-Effect Estimation from Well Curated to Less Resourced Populations with HIV

Bio: Sonali is a postdoctoral research fellow working with Prof Finale Doshi-Velez at Harvard University, where she focuses on decision-making in uncertainty, causal inference and building interpretable models for healthcare problems such as treating patients with HIV and sepsis. In 2019, Sonali received her PhD (summa cum laude) from the University of Basel in Switzerland where she built intelligent models for understanding the interplay between host and virus in the fight against HIV. Prior to this, Sonali completed her graduate studies in her home town in South Africa, specialising in Molecular Biology, Computer Science and Mathematics. Apart from her research, Sonali is also passionate about encouraging more discussion about the role of ethics in developing machine learning technologies to improve society.

Kalesha Bullard

Title: Emergent Communication in Embodied Multi-Agent Populations

Bio: Kalesha Bullard is a postdoctoral researcher at Facebook AI Research. She completed her PhD in Computer Science at Georgia Institute of Technology in 2019, where her research lied at the intersection of human-robot interaction and machine learning, in interactive robot learning. During her postdoc, Kalesha has expanded her research to explore the space of multi-agent reinforcement learning, currently investigating how to enable embodied multi-agent populations to learn generalizable communication protocols. More broadly, Kalesha's research interests span the space of autonomous reasoning and decision making for artificial agents in multi-agent settings. To date, her research has focused on models and algorithms for enabling agents to learn through interaction with other agents (human or artificial). Kalesha currently serves as a member of the organizing committee for the NeurIPS 2020 Workshop on *Talking to Strangers: Zero-Shot Emergent Communication* and on the program committee for the NeurIPS 2020 *Cooperative AI Workshop*. She also served as a Program Committee member for the 2019 International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS) and has been an Area Chair for the NeurIPS *Women in Machine Learning* workshop since 2019.

Chinasa T. Okolo

Title: Understanding the Role of AI-enabled Healthcare in the Global South

Bio: Chinasa Okolo is a third-year Ph.D. student in the Department of Computer Science at Cornell University, co-advised by Bharath Hariharan and Nicki Dell. Her research leverages recognition techniques in computer vision to improve mobile healthcare in low-resource regions for the rapid diagnosis of infectious and tropical diseases. She also works on research projects to analyze the applications, implications, and perceptions of AI-enabled healthcare deployed throughout the Global South and North. Chinasa co-organizes the Mechanism Design for Social Good (MD4SG) working group on development where she leads collaboration and discussion amongst practitioners and academics to understand and tackle issues pertaining to the role of technology in emerging nations and under-resourced settings. Her work has been supported by funding from The National GEM Consortium, Oracle Corporation, and the North American Network Operators' Group (NANOG). Chinasa holds a Bachelor's degree in Computer Science from Pomona College and has previously interned at Microsoft Research in Cambridge, England where she developed computational models and domain-specific computational tools for bacterial quorum sensing.