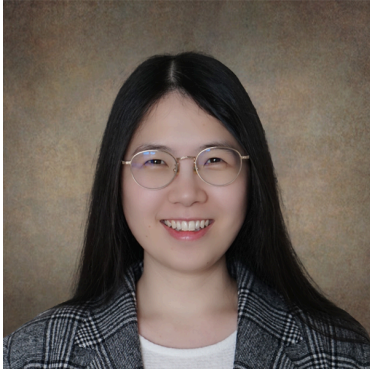


Department of Biostatistics and Medical Informatics Seminar



Ming Jiang, PhD

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Department of Human-Centered Computing
Luddy School of Informatics, Computing, and Engineering
Indiana University Indianapolis

Friday, February 7, 2025

12:00-1:00 pm

Biotech Center Auditorium *or* via Zoom Link

<https://uwmadison.zoom.us/j/99879638765?pwd=wbtqxoucEFllPVCVc9SFbvKB1Av7Xk.1>

Passcode: 343271

Beyond Accuracy: Building Human-centered Trustworthy Language Technologies

Abstract: Recent advances in natural language processing (NLP), particularly the rise of large language models (LLMs), have established them as vital AI tools across diverse domains such as communication, knowledge discovery, and complex decision-making. Despite their potential, NLP systems still face critical trustworthiness challenges particularly in high-stake, human-centered applications (e.g., personalized medicine, drug discovery, AI-assisted diagnostics), mostly due to oversimplified assumptions about human factors during model development, assessment, and deployment. This talk will showcase our research efforts to overcome these obstacles, focusing on three core themes: (1) exploring the potential of LLMs to bridge critical knowledge gaps across diverse communities; (2) designing human-aligned assessment methodologies to rigorously quantify the capabilities of vision-language generative models; and (3) developing a highly adaptable and interpretable LLM evaluation framework for diverse generation tasks. Looking ahead, I will share our vision for advancing trustworthy language technologies that can drive real-world impact in critical, human-centric applications such as public health and precision medicine.

Bio: Ming Jiang is an Assistant Professor in the Department of Human-Centered Computing at the Luddy School of Informatics, Computing, and Engineering, Indiana University Indianapolis. Her research focuses on human-centered trustworthy natural language processing (NLP), with an emphasis on socially-aware NLP, model evaluation, large language models (LLMs), and vision-language models. Her work has received successful funding from prestigious institutions, including the National Science Foundation, Google, etc. In 2024, Dr. Jiang's research was recognized with the esteemed Google Research Scholar Award in NLP. Before joining Indiana University, she earned her Ph.D. in Informatics from the University of Illinois Urbana-Champaign in 2022.



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