

## Call for Participation

# ASU-Mayo Workshop on Generative AI and Large Language Models: Opportunities and Challenges for Healthcare and Medicine

Generative AI, especially Large Language Models (LLMs), is ushering in a paradigm shift with its revolutionary and disruptive potential across various domains. One of the most compelling and transformative arenas where these advancements are taking center stage is the field of medicine and healthcare. The ASU-Mayo Center for Innovative Imaging (AMCII) is hosting a workshop on Generative AI and Large Language Models: Opportunities and Challenges for Healthcare and Medicine. This event, sponsored by ASU's Fulton Schools of Engineering, is scheduled for **November 18, 2023**. Attendees are also invited to join the AI Day of the School of Computing and Augmented Intelligence on November 17.

Given the rapid strides made in Generative AI and LLMs like ChatGPT, there is a growing imperative to explore their applications in healthcare and confront the unique challenges therein. Can we utilize General Artificial Intelligence (GAI) and Large Language Models (LLMs) to enhance healthcare and medical research? Is it possible for GAI and LLMs to uncover information not explicitly stated in existing literature? If so, how can we ensure the accuracy of such findings? What are the recommended best practices for the safe utilization of GAI and LLMs in these fields? To answer these and many other questions, we extend a warm invitation to researchers, healthcare professionals, data scientists, and industry experts to actively engage in this workshop and contribute to discussions across the following key areas (not limited to):

Applications of LLMs in Healthcare	Can GAI Know Anything New
Ethical Considerations	Validation and Verification of LLMs for Medical Research
Validation and Accuracy	Disinformation and Misinformation in Healthcare
Clinical Decision Support	Medical Imaging
Patient Engagement	Causal Inference
Best Practice in Prompt Engineering for Medical Research	Current Policy or Institutional Barriers
Transparency and Explainability	Novel Challenges and Future Directions
Reinforcement Learning with Human Feedback	

**Format of the Workshop:** To foster the exchange of ideas, the workshop will primarily adopt the form of plenary panel sessions followed by small-group discussion sessions. This format ensures that every attendee will have an opportunity to contribute and engage in in-depth discussions on the workshop's themes.

**Venue & Registration:** The full-day Workshop will be conducted in person at *Canopy by Hilton Tempe Downtown*, right by the ASU campus. There is no charge to participate but a registration is needed to reserve your spot. Please email the committee chair at [baoxin.li@asu.edu](mailto:baoxin.li@asu.edu) to register and/or apply for a potential travel grant if you need travel support.

## Organizing Committee

Baoxin Li, ASU (Chair)  
Geunyeong Byeon, ASU  
Huan Liu, ASU

Teresa Wu, ASU  
Imon Banerjee, Mayo Clinic  
Bhavik Patel, Mayo Clinic

Todd J. Schwedt, Mayo Clinic  
Aaron Lee, Univ. of Washington  
Ankur M. Teredesai, Univ. of Washington