

## **Generative AI for Clinical Research**

**Yike Guo**

**Department of Computer Science & Engineering, The Hong Kong University of Science and  
Technology, Hong Kong SAR, P. R. China**

**Email: [yikeguo@ust.hk](mailto:yikeguo@ust.hk)**

Generative AI, an exciting area of research in artificial intelligence, has shown great potential in various clinical applications. In this talk, we will explore the capabilities of generative AI and its potential to revolutionize clinical research. We will discuss how generative models can be used to predict patient outcomes, suggest therapeutical treatments and support clinical research. We will also examine the challenges associated with deploying generative AI in clinical settings, such as ensuring the safety and efficacy of the models, and maintaining patient privacy. Finally, we will explore ongoing research in this area and discuss the future of generative AI for clinical research, including its potential to transform personalized medicine and improve patient outcomes.