

# ECE Computes Faculty Candidate Search Seminar



*Yang Liu*

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*Thursday, February 27*  
2:00 PM • MSEE 112

## *WearIoT: Toward Smarter and Healthier Lives Through Intelligent Wearable Sensing*

### **Abstract**

In today's technology-driven world, the ubiquity of wearable devices offers unparalleled opportunities to monitor and enhance human well-being. However, a substantial gap remains in their ability to intuitively understand and respond to individual needs. In this talk, I will share how to bring intelligence into everyday wearable devices, transforming them into proactive, responsive partners that enrich and support users' daily lives. Specifically, I will introduce my work on exploring and expanding the perception capabilities of wearable devices to deepen and broaden innovative ways for understanding human behavior, monitoring human wellness, and facilitating interactions between humans and machines or ambient environments. By gathering insights into individual behavior, health, and interactions, it advances cutting-edge areas such as smart health, Human-Computer Interaction (HCI), and the Internet of Things (IoT).

### **Bio**

Dr. Yang Liu joined the Department of Computer Science and Technology at the University of Cambridge three years ago. She is currently a Senior Research Associate and Affiliated Lecturer in the department. Prior to that, she did her PhD in computer science at City University of Hong Kong. Her research lies at the intersection of systems, signal processing, and applied machine learning/artificial intelligence (AI), focusing on the development of intelligent mobile and wearable technologies for human-centered sensing and computing. Dr. Liu was awarded the N2Women: Rising Stars in Computer Networking and Communications 2024 award, and her work on human behavior sensing using wearables earned her the Outstanding Doctoral Thesis Award from ACM SIGBED China in 2021.

### **Hosts**

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