

Professor Ian Oakley's Lab>



Wearable and Interactive Technology Lab

Contact information

Professor: Ian Oakley
Telephone: 010-4531-6693
Website : <https://wit.kaist.ac.kr/>

The current state of the Lab. (in 2025 Spring Semester)

Postdoctoral Fellows : 1

PhD Students: 2

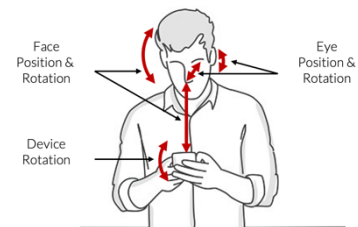
Master's Student: 1

Research Areas:

WIT Lab conducts research on Human-Computer Interaction (HCI). Specifically: Sensing and Input for AR and VR: Smartglasses are an emerging computational platform that demands new input forms based on sensing finger and body motions and gestures. WIT Lab designs, develops, and evaluates novel interactive technology in this space for critical use scenarios such as typing, selection or navigation.

Wearable Authentication: Wearable devices increasingly sense, store, or access sensitive user data or services relating to health, communications, or transactions. However, securing access to these devices poses new challenges regarding reliable entry of passcodes or the design of practical design and integration of biometric sensing. WIT lab develops novel systems and user studies behaviors during authentication to wearable devices.

Digital Phenotyping: Smart and wearable devices have unprecedented capabilities to monitor their wearers. WIT Lab explores the user of novel data (e.g., gaze or other physiological signals) generated by mobile and wearable devices to detect key affective states, such as the feelings experienced during social media use, and how these may contribute to mental health issues,



Recommended courses & Career after graduation

KAIST offers a world-class environment in which to study HCI, with a network of faculty engaged in and around core HCI topics (<https://hci.kaist.ac.kr/>) and courses across CS, ID, GSCT and EE. HCI offers many opportunities for future careers, with burgeoning opportunities in academia, strong demand from

Introduction to other activities

Lab members can expect to attend top international and national HCI conferences and have regular lab social events (organized mainly around lunches) and periodic workshop trips. We are a new lab and open to ideas - join us and propose and/or organize

Introduction to the Lab.

WIT Lab was founded in August 2023. Grab an opportunity to join a rapidly growing lab as a founding member! We are recruiting! We're happy to speak to candidates interested in any area of HCI, but are currently focusing on sensing, input, and interaction design for wearable and augmented reality. Also, note that although we are a new lab, we are also a mature one - the lab builds on Professor Ian Oakley's 20+ years of experience as an HCI researcher and faculty member, so expect projects and publications to ramp up quickly. Come join us as we grow!

Recent research achievements ('22~'25)

We published seven papers at ACM CHI and two papers at ACM IMWUT (UbiComp). Come join our lab and contribute to top-tier research in Human-Computer Interaction!