

KAIXIN JI

School of Computing Technologies,
RMIT University,
Melbourne, Victoria, Australia

Email: kaixin.ji@student.rmit.edu.au

Website: ji-kaixin.com



RESEARCH INTEREST

My research interests lie at the intersection of cognitive psychology and human-computer interaction, with a particular focus on leveraging wearable devices to support self-awareness and regulation of cognitive health. My thesis aims to measure users' information behaviors and cognitive bias in interactive information-seeking with multi-modal sensing. The sensing data includes neurophysiological, e.g, EEG for brain activity, Electrodermal Activity (EDA) and Blood Volume Pulse (BVP) for peripheral activity, eye-tracking data, etc.

EDUCATION EXPERIENCES

Ph.D. (Data Science) <i>RMIT University & ARC Centre of Excellence for Automated Decision-Making and Society (ADM+S)</i>	March 2022 - Jan. 2026 (est.)
• Supervisors: Damiano Spina, Falk Scholer, Danula Hettiachchi, Flora Salim (UNSW)	
Master of IT (Human-Computer Interaction) <i>University of Melbourne</i>	March 2020 - July 2021
• Main Subjects: UX design, Usability Testing, User Study, Field Study	
Bachelor of IT (Software Development) <i>University of South Australia</i>	March 2017 - Dec. 2019

SELECTED PUBLICATIONS

- [1] SenseSeek Dataset: Multimodal Sensing to Study Information Seeking Behaviors.
ACM Proceedings of Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2025.
Kaixin Ji, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina
- [2] GLOSS: Group of LLMs for Open-Ended Sensemaking of Passive Sensing Data for Health and Wellbeing.
ACM Proceedings of Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2025.
Akshat Choube, Ha Le, Jiachen Li, Kaixin Ji, Vedant Das Swain, Varun Mishra
- [3] Sensory Design with Scent: Exploring the Impact of Ambient Smell on Emotions and Physiological Responses in the Office Environment.
The International Journal of Building Science and its Applications (Building and Environment), 2025.
Mohsen Kafaei, Mehrnoush Latifi, Jane Burry, Joseph Ciorciari, Amirhossein Aminitabar, Kaixin Ji
- [4] Towards Detecting and Mitigating Cognitive Bias in Spoken Conversational Search.
ACM International Conference on Mobile Human-Computer Interaction (MobileHCI Adjunct) [Poster], 2024.
Kaixin Ji, Sachin Pathiyan Cherumanal, Johanne Trippas, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina
- [5] Characterizing Information Seeking Processes with Multiple Physiological Signals.
ACM Conference on Research and Development in Information Retrieval (SIGIR), 2024.
Kaixin Ji, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina
- [6] Walert: Putting Conversational Search Knowledge into Action by Building and Evaluating a Large Language Model-Powered Chatbot.
ACM Conference on Human Information Interaction and Retrieval (CHIIR) [Demo], 2024.
Sachin Pathiyan Cherumanal, Lin Tian, Futoon M Abushaqra, Angel Felipe Magnossão de Paula, Kaixin Ji, Halil Ali, Danula Hettiachchi, Johanne R Trippas, Falk Scholer, Damiano Spina
- [7] Inside Out or Not: Privacy Implications of Emotional Disclosure.
ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp Adjunct) [Poster], 2024.
Elham Naghizade, Kaixin Ji, Benjamin Tag, Flora Salim

- [8]  Towards Detecting Tonic Information Processing Activities with Physiological Data.
ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp Adjunct) [Poster], 2023.
Kaixin Ji, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina
- [9] Examining the Impact of Uncontrolled Variables on Physiological Signals in User Studies for Information Processing Activities.
ACM Conference on Research and Development in Information Retrieval (SIGIR) [Short], 2023.
Kaixin Ji, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina
- [10] Designing and Evaluating Presentation Strategies for Fact-Checked Content.
ACM Conference on Information and Knowledge Management (CIKM), 2023.
Danula Hettiachchi, Kaixin Ji, Jenny Kennedy, Anthony McCosker, Flora D Salim, Mark Sanderson, Falk Scholer, Damiano Spina
- [11] Individual and Group-wise Classroom Seating Experience: Effects on Student Engagement in Different Courses.
ACM Proceedings of Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2022.
Nan Gao, Mohammad Saiedur Rahaman, Wei Shao, Kaixin Ji, Flora Salim

Submissions Under Review:

- [12] Towards a Dissonance Thermometer: Understanding Neuro-physiological Responses to Attitude Conflict in Information Search.
Kaixin Ji, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina

AWARDS & GRANTS

Awards

- Gary Marsden Travel Award
 @ *ACM SIGCHI* 2025
- Best Poster
 @ *RMIT School of Computing Technologies Doctoral Colloquium* 2024
- Special Service Award
 @ *ACM International Conference on Mobile Human-Computer Interaction (MobileHCI)* 2024
- Best Poster Paper
 @ *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp/ISWC)* 2023
- Student Challenge Award
 @ *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp/ISWC)* 2023
-  ZzzGPT: An Interactive GPT Approach to Enhance Sleep Quality
 Yonchanok Khaokaew, Thuc Hanh Nguyen, Kaixin Ji, Hiruni Kegalle, Marwah Alaofi
- Runner-up (group) of Bushfire Grand Challenge Masterclass
 @ *Commonwealth Scientific and Industrial Research Organisation (CSIRO) Data61* 2022
- International Merit Scholarship
 @ *University of South Australia* 2019

Grants

- The Chinese Government Award for Outstanding Self-financed Students Abroad – US\$6,000
 @ *China Scholarship Council* 2025
- Internal HDR Funding – AU\$5,000
 @ *ARC Centre of Excellence for Automated Decision-Making and Society (ADM+S)* 2024 & 2025
- Student Conference Travel Grant (APAC) – AU\$3,000 @ *Google* 2024
- Internal Research Funding – AU\$5,000 (experiment equipment acquisition)
 @ *ARC Centre of Excellence for Automated Decision-Making and Society (ADM+S)* 2022

ACADEMIC SERVICES

Workshop Co-Organizer

Conference Organization Committee

- Student Volunteer Co-Chair @ *ACM SIGIR CHIIR* 2025
 - Registration Chair @ *ACM MobileHCI* 2024
 - Student Volunteer @ *ACM UbiComp/ISWC* 2024

Invited Reviewer & Sub-reviewer

- ACM CHI 2024/2025/2026; ACM MobileHCI 2024; ACM SIGIR 2024/2025; ACM TOIS 2024/2025; ACM CHIIR 2025/2026; ACM WSDN 2026;

TEACHING & PROFESSIONAL EXPERIENCE

Research Assistant – UNSW

Oct. 2025 - Dec. 2025

- #### **• Project: AI-Driven Analysis and Simulation of Older Adult Workforce Re-engagement in Australia**

CIDDA Usability Lab Manager – RMIT University

Feb. 2023 - Present

- Designed and set up the lab's physical and digital infrastructure, managed lab operations, and maintained equipment and documentation

Tutor/Teaching Assistant – RMIT University

July 2022 - Present

- **Subjects:**
 - * Data Mining (COSC2111): *Semester 2, 2025*
 - * Practical Data Science with Python (COSC2670): *Semester 1, 2025*
 - * Programming Fundamentals for Scientists (COSC2510): *Semester 1, 2025*
 - * Advanced Programming on Data Science (COSC2410): *Semester 2, 2023 & Semester 1, 2024*
 - * Programming Bootcamp 1 – Python (COSC2801): *Term 1, 2022*
 - * Programming Bootcamp 2 – Java (COSC2802): *Term 1, 2022*
 - * Building IT System (COSC2250): *Semester 1, 2022*

Research Assistant – RMIT University

June 2022 - June 2024

- ## **• Project: Understand the Relation between Context, Users' Emotion, and Information Disclosure Behavior**

Software Intern – *YourAnswer.io*

April 2019 - Nov. 2019

- **Description:** Developed backend for a client reporting console with Apache Spark and AWS for performance evaluation.

Guest Lecture – RMIT University

- Subjects & Talk Topics:

- * Geospatial Programming (GEOM2157 & GEOM2159): *Tips for Complex Data Analysis with Python*
 - * Buyer Behavior (MKTG1339): *Eye-tracking for Online Buyer Behaviors*
 - * Usability Engineering (COSC1182): *Design a Lab Study for: Quantify and measure online user behaviours and attitude changes in information-seeking using sensors*