# KAIXIN JI

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March 2020 - July 2021

March 2017 - Dec. 2019



#### **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 physiological data, e.g, EEG for brain activity, Electrodermal Activity (EDA) and Blood Volume Pulse (BVP) for peripheral activity, and eye-tracking data, etc.

#### **EDUCATION EXPERIENCES**

Ph.D. (Data Science)March 2022 - Sept. 2025 (est.)*RMIT University & ARC Centre of Excellence for Automated Decision-Making and Society (ADM+S)*• Supervisors: Damiano Spina, Falk Scholer, Danula Hettiachchi, Flora Salim (UNSW)

#### Master of IT (Human-Computer Interaction)

University of Melbourne

• Main Subjects: UX design, Usability Testing, User Study, Field Study

#### **Bachelor of IT (Software Development)**

University of South Australia

#### SELECTED PUBLICATIONS

[1] 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, <u>Kaixin Ji</u>

- [2] Towards Detecting and Mitigating Cognitive Bias in Spoken Conversational Search. ACM International Conference on Mobile Human-Computer Interaction (MobileHCI Adjunct) [Poster], 2024. <u>Kaixin Ji</u>, Sachin Pathiyan Cherumanal, Johanne Trippas, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina
- [3] Characterizing Information Seeking Processes with Multiple Physiological Signals. ACM Conference on Research and Development in Information Retrieval (SIGIR), 2024. <u>Kaixin Ji</u>, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina
- [4] 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, <u>Kaixin Ji</u>, Halil Ali, Danula Hettiachchi, Johanne R Trippas, Falk Scholer, Damiano Spina
- [5] Inside Out or Not: Privacy Implications of Emotional Disclosure. ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp Adjunct) [Poster], 2024. Elham Naghizade, <u>Kaixin Ji</u>, Benjamin Tag, Flora Salim
- [6] Towards Detecting Tonic Information Processing Activities with Physiological Data.
   ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp Adjunct) [Poster], 2023.
   <u>Kaixin Ji</u>, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina

- [7] 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
- [8] Designing and Evaluating Presentation Strategies for Fact-Checked Content. ACM Conference on Information and Knowledge Management (CIKM), 2023. Danula Hettiachchi, <u>Kaixin Ji</u>, Jenny Kennedy, Anthony McCosker, Flora D Salim, Mark Sanderson, Falk Scholer, Damiano Spina
- [9] 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, <u>Kaixin Ji</u>, Flora Salim

#### **Submissions Under Review:**

- [10] SenseSeek Dataset: Multimodal Sensing to Study Information Seeking Behaviors. ACM Proceedings of Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2025. <u>Kaixin Ji</u>, Danula Hettiachchi, Flora Salim, Falk Scholer, Damiano Spina
- [11] 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, <u>Kaixin Ji</u>, Vedant Das Swain, Varun Mishra

### Awards & Grants

The Chinese Government Award for Outstanding Self-financed Students Abroad     @ China Scholarship Council	2025
Best Poster     @ RMIT School of Computing Technologies Doctoral Colloquium	2024
• Special Service Award @ ACM International Conference on Mobile Human-Computer Interaction (MobileHCI)	2024
<ul> <li>Student Conference Travel Grant (APAC)</li> <li>@ Google</li> </ul>	2024
<ul> <li>Best Poster Paper</li> <li>@ ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp/ISWC)</li> </ul>	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, <u>Kaixin Ji</u> , Hiruni Kegalle, Marwah Alaofi	
Runner-up (group) of Bushfire Grand Challenge Masterclass     @ Commonwealth Scientific and Industrial Research Organisation (CSIRO) Data61	2022
International Merti Scholarship	
@ University of South Australia ACADEMIC SERVICES	2019

## Workshop Co-Organizer

 NeuroPhysIIR'25: The International Workshop on NeuroPhysiological Approaches for Interactive Information Retrieval

 *@ ACM Proceedings of the SIGIR Conference on Human Information Interaction and Retrieval* 

 APhyMeHII'24: Advancing Physiological Methods for Human-Information Interaction

 *@ ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp/ISWC)* 2024

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, ACM MobileHCI, ACM SIGIR, ACM TOIS, ACM CHIIR	
TEACHING & PROFESSIONAL EXPERIENCE	
CIDDA Usability Lab Manager RMIT University	Feb. 2023 - Present
Tutor/Teaching Assistant RMIT University • Subjects:	July 2022 - Present
<ul> <li>* Practical Data Science with Python (COSC2670): Semester 1, 2025</li> <li>* Programming Fundamentals for Scientists (COSC2510): Semester 1, 2025</li> </ul>	
<ul> <li>* Advanced Programming on Data Science (COSC2410): Semester 2, 2023 &amp; Semest</li> <li>* Programming Bootcamp 1 – Python (COSC2801): Term 1, 2022</li> <li>* Programming Bootcamp 2 – Java (COSC2802): Term 1, 2022</li> <li>* Building IT System (COSC2250): Semester 1, 2022</li> </ul>	ter 1, 2024
Research Assistant	June 2022 - June 2024
RMIT University <b>Project:</b> Understand the Relation between Context, Users' Emotion, and Information E	Disclosure Behavior
Software Intern	April 2019 - Nov. 2019
<ul> <li>YourAnswer.io</li> <li>Description: Develop the backend of a client reporting console for product performanc on AWS.</li> </ul>	e evaluation, then deploy
Intern	Dec. 2018 - Feb. 2019
<ul><li>Leyan Technologies</li><li>Description: Build microservices, design and construct databases, and develop APIs.</li></ul>	
Guest Lecture <i>RMIT University</i> • Subjects & Talk Topics: * Geospatial Programming (GEOM2157 & GEOM2159): <i>Tips for Complex Data And</i> * Buyer Behavior (MKTG1339): <i>Eye-tracking for Online Buyer Behaviors</i> * Usability Engineering (COSC1182): <i>Design a Lab Study for: Quantify and measure</i> <i>and attitude changes in information-seeking using sensors</i>	
REFERENCE	

**Dr. Damiano Spina** PhD Senior Supervisor Email: damiano.spina@rmit.edu.au

**Dr. Danula Hettiachchi** PhD Joint supervisor Email: danula.hettiachchi@rmit.edu.au **Prof. Falk Scholer** PhD Senior Supervisor Email: falk.scholer@rmit.edu.au

**Prof. Flora Salim** PhD Joint supervisor Email: flora.salim@unsw.edu.au