# YIHAO DONG

+61 478 092 618
yihao.dong@outlook.com

Sydney,  NSW 2000

## EDUCATION

### Doctor of Philosophy — Expected In July 2028
The University of Sydney

Department: Computer Science (Human Computer Interaction)

Thesis title: Enhancing User Experience in Extended Reality through Predictive Hand Gesture Tracking

### Bachelor of Advanced Computing (Honours) — 2019 - 2024
The University of Sydney

Honours Class I

Honours Subject Area: Human Computer Interaction

Major: Information Systems (Engineering)

### Bachelor of Commerce — 2019 - 2024
The University of Sydney

Major: Business Information Systems

## EXPERIENCES

### Associate Lecturer (PhD Teaching Fellow) — Oct 2025 - Present
The University of Sydney, Sydney, NSW

### Casual Academic — June 2023 - Present
The University of Sydney, Sydney, NSW

**Honours Project Examiner**

| | | |
|---|---|---|
| • INFO4999 | Computer Science Honours | S2, 2025  S2 2024 |

**TA**

| | | |
|---|---|---|
| • COMP5427 | Usability Engineering | S1 2025 |
| • INFO3315 | Human-Computer Interaction | S2 2025 |

**Tutor**

| | | |
|---|---|---|
| • ISYS2120 | Data and Information Management | S2 2023, S2 2024 |
| • COMP5338 | Advanced Data Models | S2 2024 |
| • INFO3315 | Human-Computer Interaction | S1 2025, S2 2024 |

- Conducted tutorial sessions for various classes, both with and without specific guidelines or instructions.
- Engaged in regular meetings with student groups to offer ongoing formative feedback on their assignments on a weekly basis.

- Evaluated a diverse range of assignments, encompassing reports, code projects, and websites.
- Delivered insightful and constructive feedback to students to enhance their understanding and foster their academic progress.

## PUBLICATIONS

**Yihao Dong**, Praneeth Bimsara Perera, Chin-Teng Lin, Craig T Jin, and Anusha Withana. 2026. TactDeform: Finger Pad Deformation Inspired Spatial Tactile Feedback for Virtual Geometry Exploration. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26), April 13–17, 2026, Barcelona, Spain*. ACM, New York, NY, USA, 16 pages. https://doi.org/10.1145/3772318.3791699

**Yihao Dong**, Pamuditha Somarathne, Craig Jin, Juno Kim, Andrea Bianchi, and Anusha Withana. 2025. Just Before Touch: Manipulating Perceived Haptic Sensations through Proactive Vibrotactile Cues in Virtual Reality. In *Proceedings of Augmented Humans International Conference (AHs 25)*. ACM, New York, NY, USA, 13 pages. https://doi.org/10.1145/3745900.3746097

Hongyu Zhou, Chia-An Fan, **Yihao Dong**, Shuto Takashita, Masahiko Inami, Zhanna Sarsenbayeva, and Anusha Withana. 2026. SRL Proxemics: Spatial Guidelines for Supernumerary Robotic Limbs in Near-Body Interactions. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26), April 13–17, 2026, Barcelona, Spain*. ACM, New York, NY, USA, 22 pages. https://doi.org/10.1145/3772318.3790532

Hongyu Zhou, Tom Kip, **Yihao Dong**, Andrea Bianchi, Zhanna Sarsenbayeva, and Anusha Withana. 2025. Juggling Extra Limbs: Identifying Control Strategies for Supernumerary Multi-Arms in Virtual Reality. In *Proceedings of the 2025CHI Conference on Human Factors in Computing Systems (CHI '25), April 26–May 01, 2025, Yokohama, Japan*. ACM, New York, NY, USA, 16 pages. https://doi.org/10.1145/3706598.3713647

Hongyu Zhou, **Yihao Dong**, Masahiko Inami, Zhanna Sarsenbayeva, and Anusha Withana. 2025. A Survey on Methodological Approaches to Collaborative Embodiment in Virtual Reality. *arXiv preprint arXiv:2507.18877 (July 2025)*. https://doi.org/10.48550/arXiv.2507.18877

## CORE QUALIFICATIONS

- Advanced Programming Skills: Python, Java, JavaScript, SQL, R
- Website Design, Development and Backend Maintenance
- Data and Information Analysis and Management
- Analysis, Design and Optimise Computer Algorithms

- Analysis, Evaluate and Reengineer Business Processes

- Design, Develop and Manage Projects in Practice

- Experienced with Key Development and Design Methodologies

## PROFESSIONAL RELEVANT SKILLS

- Working in High Performing Team
- Communication and Presentation
- Time Management and Multitasking

- Adaptability and Flexibility
- Relationship Building and Management
- Critical Thinking and Problem-Solving

## LANGUAGES

- **English**
  Professional Working

- **Chinese, Mandarin**
  Native