

# XIAOHANG TANG

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## EDUCATION

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<b>Virginia Tech</b> , Blacksburg, USA	08/2023 – Present
Ph.D. in Computer Science	
<b>University of Liverpool</b> , Liverpool, UK	09/2021 – 06/2023
B.Sc. in Computer Science	
First Class (Honors)	
<b>Xi'an Jiaotong-Liverpool University</b> , Suzhou, China	09/2019 – 08/2021
B.Sc. in Information and Computing Science	
First Class (Honors)	

## EXPERIENCE

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<b>Virginia Tech</b>	08/2023 – Present
HCI   Graduate Student and Researcher   <a href="#">PRIME Lab</a>	
Advisors: Yan Chen	
<b>University of Notre Dame</b>	05/2022 – 02/2023
HCI + NLP   Research Intern   <a href="#">SaNDwich Lab</a>	
Advisors: Toby Jia-Jun Li & Elena Glassman (co-advised from Harvard University)	
<b>University of Liverpool</b>	10/2021 – 08/2023
NLP   Research Assistant   <a href="#">NLP@Liv</a>	
Advisor: Danushka Bollegala	
<b>Xi'an Jiaotong-Liverpool University</b>	10/2020 – 08/2021
HCI + VR   Research Assistant   <a href="#">X-CHI Lab</a>	
Advisors: Hai-Ning Liang & Diego Monteiro	

## SELECTED PUBLICATIONS: MY GOOGLE SCHOLAR

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### Full Paper

- [C.7] Tong Wu, **Xiaohang Tang**, Sam Wong, Xi Chen, Clifford A Shaffer, Yan Chen, “The Impact of Group Discussion and Formation on Student Performance: An Experience Report in a Large CS1 Course,” in **SIGCSE’25** [Accepted]
- [C.6] **Xiaohang Tang**, Sam Wong, Kevin Pu, Xi Chen, Yalong Yang, Yan Chen, “VizGroup: An AI-Assisted Event-Driven System for Collaborative Programming Learning Analytics,” in **UIST’24**
- [C.5] Ashley Ge Zhang, **Xiaohang Tang**, Steve Oney, Yan Chen, “CFlow: Supporting Semantic Flow Analysis of Students’ Code in Programming Problems at Scale,” in **L@S’24** (*Best Paper*)

- [C.4] **Xiaohang Tang**, Yi Zhou, Taichi Aida, Procheta Sen, Danushka Bollegala, “Can Word Sense Distribution Detect Semantic Changes of Words?,” in **EMNLP’23 Findings**
- [C.3] **Xiaohang Tang**, Yi Zhou, Danushka Bollegala, “Learning Dynamic Contextualised Word Embeddings via Template-based Temporal Adaptation,” in **ACL’23 (Oral)**
- [C.2] Simret Araya, Zheng Zhang, **Xiaohang Tang**, Yihao Meng, Elena Glassman, Toby Jia-Jun Li, “PaTAT: Human-AI Collaborative Qualitative Coding with Explainable Interactive Rule Synthesis,” in **CHI’23**
- [C.1] Diego Monteiro, Hai-Ning Liang, **Xiaohang Tang**, Pourang Irani, “Using Trajectory Compression Rate to Predict Changes in Cybersickness in Virtual Reality Games,” in **ISMAR’21**
- [J.1] Jingjing Zhang, Mengjie Huang, Rui Yang, Yiqi Wang, **Xiaohang Tang**, Ji Han, Haining Liang, “Understanding the effects of hand design on embodiment in virtual reality,” in **AI EDAM (Cambridge University Press)**

### Extended Abstract

- [EA.5] **Xiaohang Tang**, Sam Wong, Marcus Huynh, Zicheng He, Yalong Yang, Yan Chen, “SPHERE: Supporting Personalized Feedback at Scale in Programming Classrooms with Structured Review of Generative AI Outputs,” in **CHI’25 Late-Breaking Work [Accepted]**
- [EA.4] **Xiaohang Tang**, Xi Chen, Sam Wong, Yan Chen, “VizPI: A Real-Time Visualization Tool for Enhancing Peer Instruction in Large-Scale Programming Lectures,” in **UIST’23**
- [EA.3] Xiang Li, Yuzheng Chen, **Xiaohang Tang**, “GesMessages: Using Mid-air Gestures to Manage Notifications,” in **SUI’23**
- [EA.2] Xiang Li, Yuzheng Chen, **Xiaohang Tang**, “GesPlayer: Using Augmented Gestures to Empower Video Players,” in **ISS’22**
- [EA.1] Xiang Li, **Xiaohang Tang**, Xin Tong, Rakesh Patibanda, Florian ‘Floyd’ Mueller, Hai-Ning Liang, “Myopic Bike and Say Hi: Games for Empathizing with The Myopic,” in **CHI PLAY’21 [SGDC Finalist]**

### Patent

- [PA.1] Diego Monteiro, Hai-Ning Liang, **Xiaohang Tang**, “Method, device and storage medium for detecting user cybersickness degree in virtual environment,” [CN113283612B] (In Chinese)

### ACADEMIC SERVICE

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Committee: **DIS PWiP** (2025)

Reviewer: **CHI** (2024-2025), **CSCW** (2024-2025), **IUI** (2025), **C&C** (2025), **ACL ARR** (2025), **COLING** (2025), **CHI Late-Breaking Work** (2022-2025)

Student Volunteer: **CHI** (2023), **UbiComp** (2022), **DIS** (2022), **IEEE AIVR** (2020)

### SELECTED AWARDS

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**ACM SIGCHI Gary Marsden Travel Award ’22 (\$3500)**

**University Academic Achievement Award ’20 at XJTU (\$750, 10%)**

### SKILLS

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**Programming Languages:** Python, C/C++, C#, Java, R, JavaScript

**Tools and Frameworks:**  $\LaTeX$ , PyTorch, Unity3D, React.js, D3.js, FastAPI, Postgres