

KEWEN PENG

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EDUCATION

- University of Utah** Admitted for Summer 2026
PhD student in Human-Centered Computing (Supervisor: Dr. Jiang Yue)
- Shanghai Jiao Tong University (SJTU)** September 2020 - June 2024
B.S. in Mathematics and Applied Mathematics
B.Eng in Industrial Design (minor)
• **Honor:** Excellent Graduate of Shanghai City.
- ETH Zurich & University of Zurich (UZH)** February 2023 - June 2023
Exchange Student
• **Coursework:** Product Development and Engineering Design (ETH Zurich) (Mentors: Dr. Kristina Shea & Dr. Elizabeth Tilley, GPA 5.75/6), Human-computer Interaction (Mentor: Dr. Elaine M. Huang).
- High School Affiliated to Shanghai Jiao Tong University** September 2017 - July 2020

PUBLICATION

- Wang, X., Peng, K., Yi, X., & Li, H. (2026). *Mind the Gap: Mapping Wearer–Bystander Privacy Tensions and Context-Adaptive Pathways for Camera Glasses*. *ACM Conference on Human Factors in Computing Systems*.
- Wang, X.*, Peng, K.*, Hao, C., Yu, W., Yi, X., & Li, H. (2025). *VR Whispering: A Multisensory Approach for Private Conversations in Social VR*. *IEEE Transactions on Visualization and Computer Graphics*. (*Equal contribution)
- Peng, K., Nichols, J., Lutteroth, C., Kneare, T., Kretzer, F., Bigham, J., Maedche, A., & Jiang, Y. (2026). *Human–AI–UI Interactions Across Modalities*. *CHI 2026 Workshop*

RESEARCH EXPERIENCE

- User Experience Design for Multimodal, Agent-Generated Interfaces** Jul 2025 – Oct 2025
Aalto Science Institute International Summer Research Programme, Aalto University Advisor: Dr. Jiang Yue
- Investigated user experience and interaction behaviors with object-focused UIs in XR environments, uncovering how users perceive, manipulate, and engage with spatial interfaces.
 - Designed adaptive, agent-generated UIs to enhance user experience and interaction pacing in cognitively demanding scenarios.
 - Related work under review at top HCI venues.
- Multisensory Social Experience in XR & Human-AIs Interaction Exploration** Jul 2023 – Jul 2025
Research Assistant of Accessing Computing Summer Program, Tsinghua University Advisor: Dr. Yi Xin
- Led user experience design research in social interaction platforms across web and XR: conducting 50+ interviews for user insights per project.
 - Built full-stack demos independently using Volcengine, OpenAI, and Claude APIs for agent-driven interaction and front-end design, and used Blender and Unity XR to create embodied avatars with enhanced multisensory feedback.
 - Analyzed user data using Python and R, and presented findings through authored papers and reports, with VR Whispering accepted at IEEE VR 2025 (TVCG) and other works under review at top HCI venues.
- Maternal-Centered Automotive Design for Mother-Child Interaction** Sep 2023 – June 2024
Research Assistant at School of Design & SAIC Design, SJTU Advisor: Dr. Liu Gang
- Aimed to design vehicle interiors that support new mothers by addressing the physiological changes that influence their emotional states and interactions with their babies.
 - Explored the mathematical models of human-environment interactions on the dynamics between new mothers and their babies. Led research and the conceptual design under guidance from Shao Jingfeng's team (SAIC).
 - Developed a multi-modal transportation vehicle concept optimized for mother-child interaction, including detailed 3D models in Blender and interactive prototypes in Figma. Findings (as first author) are currently

under submission.

Mathematical Modeling in Traffic Flow Theory

Student Member; School of Mathematical Sciences, SJTU

June 2021 – Sep 2023

Advisor: Dr. Wang Kaizhi

- Aimed to deepen understanding of traffic flow theory and improve existing mathematical models, contributing to advancements in traffic research and practical applications.
- Mastered traffic flow modeling using MATLAB. Developed a specialized model that improved upon existing single-channel traffic jam model.
- Presented in the 40th Participation in Research Program (graded A+) and the 26th Shanghai Undergraduate Innovation Program (graded A+).

PROFESSIONAL SERVICES

CHI 2026 – Co-organizer of Workshop: *Human-AI-UI Across Modalities*; Student Volunteer.

IEEE VR 2025 – Paper Presentation; Finalist of Photography Contest.

UIST 2025 – Student Volunteer (as Photographer).

Reviewer for **CHI 2026** (with *Special Recognitions for Outstanding Reviews*), **IUI 2026**.

HONORS & AWARDS

Doctoral Fellowship, University of Utah. Sep 2025

DEIA Grants, IEEE VR 2025. Mar 2025

Rong-Chang Scholarship of Leadership, only 15 new students selected each year. Nov 2024

COSCO SHIPPING Scholarship, awarded for ranking within the **Top 5%**. Dec 2023

Undergraduate Merit Scholarship (Class A) of Shanghai Jiao Tong University. Dec 2023

Third Prize of Mathematical Modeling Contest Shanghai Region. Oct 2022

Honorable Mentioned in Interdisciplinary Contest in Modeling. May 2022

EXTRA ACTIVITIES

President of the Student Council Aug 2022 – Dec 2023

School of Mathematical Sciences, SJTU

- **Leadership and Collaboration:** Organized over 20 activities and hosted more than 10 large-scale events. Relevant projects won 1st prize for excellent class.
- **Publicity and Promotion:** Created content using graphic design tools and tracked publicity performance, reaching over 28,000 viewers and delivering 60,000+ impressions, with a 136% year-on-year increase in engagement. Attracted 400+ new fans, and directed a microfilm and wrote a song that garnered 1,600+ views.

Intern of Public Relations July 2022 – Aug 2022

Gusto Luxe (former Reuter Communications), Shanghai

- Supported data-informed communication strategies for national tourism promotion across major social media platforms in Mainland China.

SKILLS

Programming Skills: Python, MATLAB, R, p5.js (Processing in JavaScript), Unity / C#, HTML, JavaScript.

Design Skills: Figma, Adobe Illustrator/Audition/Premiere Pro, Canva, Blender, Stable Diffusion.

Language Skills: English, French (Basic French for College: 94/100, Duolingo course score: 45,000+), German (UZH Language Course A1-A2).

Technologies: Praat, ChatGPT, Volcengine (APIs), Meta Quest Pro, Pico 4.