Peixuan Han (韩沛煊)

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Work Experience
Teaching Assistant

University of Illinois Urbana-Champaign, Illinois, U.S.

August 2024 – Present

➢ Assisted in teaching undergraduate computer science courses such as *Data Structures*.

Education
Ph.D. in Computer Science

University of Illinois Urbana-Champaign (UIUC), Illinois, U.S.

August 2024 – Present

➢ Research: Computational methods for robust text-based dialog systems.

➢ Funding: Supported by UIUC through Research and Teaching Assistantships, covering tuition, stipend, and health insurance.

Bachelor of Engineering in Computer Science and Technology

Tsinghua University, Beijing, China

September 2020 – June 2024

➢ Courses: Data Structures, Information Retrieval, and Software Engineering.

➢ Visiting: In the summer of 2023, I visited Carnegie Mellon University with a J-1 visa. I worked on building information retrieval systems.

Publications
• **ToMAP: Modeling Interactive Communication Strategies in Dialogue Systems (2025):** Develops a computational framework to improve communication effectiveness on the Internet.

• **Self-Guided Optimization for Improving Text Generation Quality (2025):** Proposes an optimization method for enhancing the coherence and usefulness of text in dialogue systems.

• **SafeSwitch: Improving Reliability of Dialogue Systems through Internal Signal Analysis (2024):** Introduces computational methods to make conversational systems more consistent and reliable during interaction.

• **Enhancing Information Retrieval with Group-level Reweighting (2023):** Improves retrieval systems by refining representation methods for large-scale document collections.

Professional Certifications
- TOEFL iBT: Total 119 (R30, L30, S29, W30)
- GRE: Verbal 164, Quantitative 170, Writing 4.0

Awards
- Scholarship for Academic Excellence, Tsinghua University, 2021 & 2022
- Scholarship for Social Work, Tsinghua University, 2022
- Outstanding Graduate, Department of Computer Science, Tsinghua University, 2024