

Shanyong Wang

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Piscataway, NJ, US

INTRODUCTION

I am currently an exchange student studying computer science at University of Illinois at Urbana-Champaign from ShanghaiTech University. I am also a junior student studying at ShanghaiTech University, major in Computer Science.

EDUCATION

- University of Illinois Urbana-Champaign** Aug. 2024 - May. 2025
Exchange Student at [The Grainger College of Engineering](#) Urbana, IL, US
- ShanghaiTech University** Sept. 2022 - Jun. 2026(excepted)
Bachelor of Engineering in Computer Science Shanghai, China

EXPERIENCE

- Rutgers University, The WISE LAB** [\[G\]](#) Jun. 2025 - Present
Research intern, advised by Prof. [Yongfeng Zhang](#) Piscataway, NJ, US
- University of Illinois Urbana-Champaign, BLENDER Lab** [\[G\]](#) Aug. 2024 - May. 2025
Undergraduate Research Assistant, advised by Prof. [Heng Ji](#) and mentor [Xiusi Chen](#) Urbana, IL, US
 - Investigated the use of large language models (LLMs) in decision-making contexts across diverse application domains.
 - Designed a generalizable framework that enables LLMs to perform reasoning-based decision making.
 - Validated the framework on multiple tasks, including medical diagnostics, agriculture planning, and financial forecasting, demonstrating its adaptability and cross-domain effectiveness.
 - Conducted systematic evaluations of model performance, decision consistency, and alignment with human preferences.
- ShanghaiTech University, WiseLab** [\[G\]](#) Jun. 2024 - Present
Undergraduate Research Assistant, advised by Prof. [Ze Xiong](#) Shanghai, China
 - Designed elector-tactile feedback device and elector-tactile circuit.
 - Ensured the interface remained lightweight and efficient while offering seamless human-machine interaction.
 - Designed, modeled, and coded various virtual environments within Unity to enhance the interactive experience using C#.
 - Implemented multi-model sensing and feedback platform using for meta-verse.

PATENTS AND PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

(*: Equal contribution)

[S.1] DecisionFlow: Advancing Large Language Model as Principled Decision Maker.

Xiusi Chen*, **Shanyong Wang***, Cheng Qian*, Hongru Wang*, Peixuan Han, Heng Ji. Manuscript submitted for publication in *EMNLP2025*. [\[Code\]](#) [\[Paper\]](#) [\[Website\]](#)

PROJECTS

- Sokoban Game Development on Longan Nano** May. 2023 – Jun. 2023
Tools: C#, RISC-V [\[G\]](#)
 - Developed a Sokoban-style pixel-based game using Minecraft-inspired textures on the Longan Nano development board, leveraging RISC-V architecture and C programming.
 - Engineered custom software-hardware interfaces to control game mechanics via integrated and external board buttons, ensuring seamless interaction and responsiveness.
 - Optimized game performance by managing memory usage efficiently to accommodate the limited resources of the embedded system.
 - Incorporated real-time player feedback through visual and auditory cues, enhancing the gaming experience.

SKILLS

- Programming Languages:** Python, C, C#, C++, R, Matlab, RISC-V
- Modeling** Unity, Blender, Arduino
- Tools:** CUDA, TensorFlow, PyTorch, Git, L^AT_EX, Markdown