

Peizhong (Chill) GAO

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Eduacation



Tsinghua University

2023

Global Innovation Exchange, Master, HCI

- **GPA:** 3.80/4.00
- **Curriculum:** Machine Learning, AIoT, HCI Technology, HRI Design, Data Analysis...



Tongji University

2019-2023

Bachelor of Engineering, Industrial Design (major), Arificial Intelligence (minor)

- **GPA:** 4.90/5.00 - **Ranking:** 1st in 77 - **Honor:** Outstanding Graduate and Thesis
- **Curriculum:** Product and Interaction Design, Ergonomics, Python, PCB Engineering...

Working Experience



Microsoft Research, Asia

2024

[Research Intern] Natural Language Computing Group, led by Prof. Furu Wei

Paper: Meta Reasoning for Large Language Models

- Propose a dynamic reasoning method MRP inspired by human thinking pathway, improving LLMs performance on **comprehensive benchmarks** with nearly **10%**, reaching **SOTA** among 7 popular methods.
- Implement experiments and analyze the results on 7 benchmarks and 7 baseline methods with 4 LLMs.
- Familiar with various LLM post-training tech, such as **Fine-tuning, RAG, Agent**.

Project: user interface and playgrounds for Kosmos and Bitnet models

- Function definition, interactive prototyping, data visualization, testing.



Moonshot AI (Kimi) (LLM company in China)

2024-2025

[Algorithm Intern] Alignment Team & [Product Intern] Product Team

OS Agent

- Grounding, mid-training and evaluation for OS agentic LLM

LLM effect optimization of phone-call scenario

- **Develop auto-eval** pipeline to analyze model deficiencies from millions of daily user queries.
- Implemented **DPO, SFT...** of models, building **values, metrics and benchmarks**.

Memory System and other routing system

- Develop **large and small model collaboration** to maintain **dynamically personalized user bios**.



OZ intelligence [Founder]

2024

- **Invested by MiraclePlus** (YC China) with \$300k
- **Brief:** Cloud-End GenAI for Embodied AI
- In charge of technology direction, financing, story telling, and bussiness.



Future Laboratory, Tsinghua University

2022-2024

[Graduate Researcher], led by Prof. Yingqing Xu

Paper: OdorAgent: Generate Odor Sequences... Based on Large Language Model

- Bring ideas of LLM and Generative agent to the group. Propose an **agent system combining VLM and LLM** for mapping movie frames and smell display device **for VR movies**.
- **Independently design ablation experiment and user study** that is praised by reviewers.

Paper: Mul-O: Encouraging Olfactory Innovation... Development Platform

- **Develop** creativity support tools in olfactory interface of **hardware and software**, including PCB, mechanical structure, web-APP.
- **Hold a hackathon for 30 people** to test our creative toolkits and platform, and **conduct qualitative analysis**.
- In a related project, responsible for **quantitative analysis** with R language.



Accenture, Designaffairs Department [Research and Strategy Intern]

2022

- **User study & analysis:** in POC project for Honda and Stanley, help with preparing 4 focus group (stimulus preparation, observation, recording), and 14 in-depth interview. Analyse the recording for quotes and insights.
- **Product defination & design:** help with HMI design process (ideation, user study, UX...)



Boeing [Contract]

2022-2023

- **Prototyping:** help with building IoT device for sensing horse physical status onboard.

Selected Honors & Grants

\$ 200,000 Grants for GPU, Google Grants for Tech Startup	2024
¥ 100,000 Grants, Research Grants, Tsinghua University	2024
China International College Student Innovation Competition, Ministry of Education, China <ul style="list-style-type: none">Gold Prize (less than 0.01%), Team Leader	2024
Generative AI Innovation Competition, Amazon, Champion, Team Leader	2024
Outstanding graduate Award & Outstanding Bachelor's thesis Award, Tongji University	2023
First-class scholarship,Tongji University (Four times)	2019-2023
iF Design Talent Award 2022, Winner (less than 1%), Team Leader	2022

Publication

Gao, P., Liu, F., Wen, D., Gao, Y., Zhang, L., Wang, C., ... & Xu, Y. (2024, October). Mul-O: Encouraging Olfactory Innovation in Various Scenarios Through a Task-Oriented Development Platform. In Proceedings of the 37th Annual ACM Symposium on User Interface Software and Technology (pp. 1-17).

Gao, P., Xie, A., Mao, S., Wu, W., Xia, Y., Mi, H., & Wei, F. (2024). Meta Reasoning for Large Language Models. arXiv preprint arXiv:2406.11698.

Zhang, Y., **Gao, P.**, Kang, F., Li, J., Liu, J., Lu, Q., & Xu, Y. (2024, March). OdorAgent: Generate Odor Sequences for Movies Based on Large Language Model. In 2024 IEEE Conference Virtual Reality and 3D User Interfaces (VR) (pp. 105-114). IEEE.

Jin, Y., Shen, X., Peng, H., Liu, X., Qin, J., Li, J., ... & Gong, J. (2023). Surrealdriver: Designing generative driver agent simulation framework in urban contexts based on large language model. arXiv preprint arXiv:2309.13193.

Lu, Q., Zhang, Y., Zhang, Y., Ma, S. E., Zhang, Y., Qin, Y., ... & Xu, Y. (2023, April). Atmospheror: Towards an olfactory interactive system for enhancing social presence and interaction in synchronous online classes. In Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems (pp. 1-8).

Gao, P., Gao, T., Yang, Y., Liu, Z., Shi, J., & Li, J. (2023, February). Bamboo Agents: Exploring the Potentiality of Digital Craft by Decoding and Recoding Process. In Proceedings of the Seventeenth International Conference on Tangible, Embedded, and Embodied Interaction (pp. 1-13).

Reviewing

- ACM CHI Conference on Human Factors in Computing Systems (CHI) 2025
- ACM Conference on Intelligent User Interfaces (IUI) 2025
- ACM International Conference on Tangible, Embedded and Embodied Interaction (TEI) 2025
- ACM Conference on Designing Interactive Systems (DIS) 2024
- ACM CHI Conference on Human Factors in Computing Systems (CHI) 2024

Teaching Experience

Teaching Assistant (Summer HCI Hackathon, Tsinghua University) <ul style="list-style-type: none">Tutored 30 students to design, develop, and present their HCI projects.	Summer 2023
Teaching Assistant (Open-source hardware and programming & User Study, Tongji University) <ul style="list-style-type: none">Tutored students to code with microcomputer and sensors, quantitative and qualitative user study	Fall 2022

Membership

MakerSpace Association, Tsinghua University <ul style="list-style-type: none">Vice President	2024
Student Arts Society, Tongji University <ul style="list-style-type: none">President	2022

Skills

Code & Data (Python, MATLAB, R...), AI (ML, signal processing, LLM, VLM...), Design (Adobe kits, figma...), 3D & Model (Rhino, Fusion360, Unity, blender), EE (Altium Designer), hardware (esp32, Raspberry Pi, Arduino), HCI, Academic Writing