JIACHEN YAO Ph.D. STUDENT

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EDUCATION

Ph.D. in Computing and Mathematical Sciences   Pasadena, California
California Institute of Technology   2024 - 2029 *(expected)*
- Advisor: Prof. Animashree Anandkumar
- Research area: Operator Learning and Generative Models

B.S. (Honours) in Information and Computer Science   Beijing, China
Zhili College, Tsinghua University   2020 - 2024
- Advisor: Prof. Jun Zhu
- Outstanding Graduates of Beijing

PUBLICATIONS

1. Zhongkai Hao*, **Jiachen Yao***, Chang Su*, Hang Su, Ziao Wang, Fanzhi Lu, ..., and Jun Zhu. PINNacle: A Comprehensive Benchmark of Physics-Informed Neural Networks for Solving PDEs. *NeurIPS*, 2024. [link] [code]

2. **Jiachen Yao***, Chang Su*, Zhongkai Hao, Songming Liu, Hang Su, and Jun Zhu. MultiAdam: Parameter-wise Scale-invariant Optimizer for Multiscale Training of Physics-informed Neural Networks. *ICML*, 2023. [link] [poster]

3. Yue Qin, Chun Yu, Wentao Yao, **Jiachen Yao**, Chen Liang, Yueting Weng, ..., and Yuanchun Shi. Selecting Real-World Objects via User-Perspective Phone Occlusion. *CHI*, 2023. [link] [video]

INTERNSHIPS

Department of Computer Science | Stanford University   June 2023 - August 2023
- Fully funded by Tsinghua University and Stanford University.
- Developed WhisperBuds, the first general-purpose, socially acceptable voice interface for AI on off-the-shelf earbuds.
- WhisperBuds achieved 88.5% of the input speed and 97% of the accuracy of traditional speech input while maintaining lower noise levels than most keyboards.

AWARDS AND HONORS

- **Outstanding Graduates**, Beijing Municipal Commission of Education.   2024
- **Scholarship for Innovation**, Tsinghua University.   2023
- Selected for Tsinghua University's **Spark Program**, top 1%.   2023
- **National Scholarship**, Ministry of Education, PRC.   2022
- **Scholarship for Comprehensive Excellence**, Tsinghua University.   2021-2023
- **Silver Medal**, National Olympiad in Informatics.   2019

SKILLS

Hobbies: Badminton, Tennis, Basketball; Blogging, Coding, Movies.

Programming: Python, C/C++, JavaScript/TypeScript, MATLAB.