



About group leader Dr. Quanming Yao (webpage: <https://lars-group.github.io>)

Dr. Quanming Yao is currently a tenure-track assistant professor, at Department of Electronic Engineering, Tsinghua University. He obtained his Ph.D. degree at the Department of Computer Science and Engineering of Hong Kong University of Science and Technology (HKUST). After that, he spent three years from a researcher to a senior scientist in 4Paradigm INC, where he set up and led the company's machine learning research team. He has published 70+ top conference and journal papers, with more than 7000 citations and h-index 31. He regularly serves as area chairs for ICML, NeurIPS, ICLR and ACML. He is also a receipt of Google Fellowship (2016), Young Scientist Awards (Hong Kong Institution of Science, 2020), Forbes 30 Under 30 (China, 2020), Global Chinese Top-50 Young Scholars in Artificial Intelligence (2022), and INNS Aharon Katzir Young Investigator Award (2023).

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About Tsinghua University (webpage: <https://www.tsinghua.edu.cn/en/>)

Tsinghua University, located in Beijing, China, is one of the country's premier higher education institutions and holds a reputation for academic excellence and innovation. Established in 1911, it has since grown into a comprehensive research university offering a wide range of undergraduate, graduate, and doctoral programs across various fields, including engineering, science, humanities, social sciences, and business. According to QS World University Rankings, Tsinghua University ranks #25 worldwide. Tsinghua's commitment to fostering creativity, critical thinking, and global perspectives has led it to become a hub for cutting-edge research and collaboration, attracting talented students and faculty from around the world. With a strong emphasis on multidisciplinary learning and a rich cultural heritage, Tsinghua University continues to play a significant role in shaping the future of education and contributing to global advancements.

About Department of Electronic Engineering (webpage: <https://www.ee.tsinghua.edu.cn/en/>)

The Department of Electronic Engineering of Tsinghua University is a prestigious academic institution dedicated to excellence in education, research, and innovation in the field of electronic engineering. The department boasts state-of-the-art facilities, cutting-edge laboratories, and an exceptional team of experts and researchers. It ranks #14 worldwide and #1 in China according to QS World University Rankings by Subject. Interdisciplinary collaboration is highly emphasized, providing students with opportunities to engage in various fields such as microelectronics, communication engineering, signal processing, integrated circuit design, and artificial intelligence. As a pioneer in technological advancement, the department continuously nurtures graduates equipped with knowledge and skills to tackle complex challenges, making significant contributions to the progress of the global electronics industry.

Research Direction

In the field of machine learning, especially in *automated and interpretable methods for structured data learning*, including but not limited to:

- Automated machine learning
- Few-shot and meta-learning
- Neural architecture search
- Graph neural networks
- Knowledge graph learning
- Applications related to AI for Science (like biomedical network, complex network, molecular graphs).

Exemplar publications: <https://lars-group.github.io/pages/publication.html>



Admissions Information

Full-time Ph.D. Program

- Duration: 4-5 years
- Quota: 1 international student position per year

Full-time Master's Program

- Duration: 2 years
- Quota: 1 international student position per year

How to apply for Ph.D./Master position?

- https://yz.tsinghua.edu.cn/en/Admissions/How_to_Apply.htm

Recruitment Information (No fixed quotas, employment through a contract with Tsinghua University):

Postdoctoral Researchers (For specific details, refer to the link)

- <https://www.ee.tsinghua.edu.cn/rczp/bshzp.htm>

Research Engineers

- Positions available throughout the year

Research Assistants

- Positions available throughout the year

Application Method

Interested applicants are required to submit their resumes (including educational background, list of publications, internship experience, etc.), transcripts (for undergraduate applicants), and representative papers or projects to the email address gyaoaa@mail.tsinghua.edu.cn.

If the initial screening of resumes is successful, applicants will be scheduled for an interview. The interview should include a prepared PPT covering the following:

- Personal background and motivation for the application
- Detailed analysis of 1-2 research experiences/achievements, showcasing logical thinking and innovation
- Discussion of personal strengths and weaknesses, along with plans and ideas for study and work