

# Ningxiao Tao

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## Education

- 2020 – 2024 **B.Sc. in Computer Science, Yuanpei College, Peking University**  
GPA: 3.77
- 2024 – Present **Ph.D. Candidate, School of Intelligence Science and Technology, Peking University**  
Advisor: Prof. Baoquan Chen

## Research Publications

- FieryGS: In-the-Wild Fire Synthesis with Physics-Integrated Gaussian Splatting**  
International Conference on Learning Representations (ICLR 2026)  
Qianfan Shen\*, **Ningxiao Tao\***, Qiyu Dai\*, Tianle Chen, Minghan Qin, Yongjie Zhang, Mengyu Chu<sup>†</sup>, Wenzheng Chen<sup>†</sup>, Baoquan Chen<sup>†</sup>
  - FlowCapX: Physics-Grounded Flow Capture with Long-Term Consistency**  
Computer Graphics Forum (Pacific Graphics 2025)  
**Ningxiao Tao**, Liru Zhang, Xingyu Ni, Mengyu Chu<sup>†</sup>, Baoquan Chen<sup>†</sup>
  - A Vortex Particle-on-Mesh Method for Soap Film Simulation**  
ACM Transactions on Graphics (SIGGRAPH 2024)  
**Ningxiao Tao**, Liangwang Ruan, Yitong Deng, Bo Zhu, Bin Wang<sup>†</sup>, Baoquan Chen<sup>†</sup>
- \* Equal contribution. <sup>†</sup> Corresponding author.

## Patents

- A Soap Film Simulation Method, System, Device and Storage Medium: CN202410563597.4**

## Services

- Sep 2025 – Present **Vice President, Graduate Student Union.** School of Intelligence Science and Technology, Peking University.
- Fall 2024 **TA for Visual Computing and Interaction.** Peking University.
- Fall 2023 – Spring 2024 **TA for Intelligent Research Practice Course.** Peking University.
- Spring 2024 **TA for online course GAMES001: Mathematics in Computer Graphics.** over 53k views (up to Sep 2024) on bilibili.

## Honors and Awards

- Jun 2024 **Outstanding Graduate of Peking University.** Awarded by Peking University.
- Sep 2025 **Merit Student of Peking University.** Awarded by Peking University.
- Sep 2023 **Peking University Practice and Public Service Award.** Awarded by Peking University.
- Nov 2019 **Gold Medal in the 36th Chinese Physics Olympiad (CPhO).**