

Guying Lin

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EDUCATION

Carnegie Mellon University

PhD in Computer Science

PA, USA

Sept. 2024 – Present

- **Advisor:** Prof. Minchen Li

The University of Hong Kong

MPhil in Computer Science

HK, China

Sept. 2022 – Aug. 2024

- **Advisors:** Prof. Wenping Wang and Prof. Taku Komura
- Fully funded by HKU postgraduate scholarship

Zhejiang University

Bachelor of Engineering

Zhejiang, China

Sept. 2018 – July 2022

- CHU KOCHEN Honors College
- **Cumulative GPA:** 3.94/4.00 (top 5%)

PUBLICATIONS

Preprints

1. **Guying Lin***, Lei Yang* (equal contributions), Congyi Zhang, Hao Pan, Yuhang Ping, Guodong Wei, Taku Komura, John Keyser, Wenping Wang. Patch-Grid: An efficient and feature-preserving neural implicit surface representation. *Neural Parametric Surfaces for Shape Modeling*. Arxiv 2308.13934.
Status: Provisionally accepted by ACM Transactions on Graphics (TOG) with revisions.
2. Lei Yang, Yongqing Liang, Xin Li, Congyi Zhang, **Guying Lin**, Alla Sheffer, Scott Schaefer, John Keyser, Wenping Wang. Neural parametric surfaces for shape modeling. Arxiv 2309.09911.
Status: Under review by ACM Transactions on Graphics (TOG).

Conference Proceedings and Journal Articles:

1. **Guying Lin***, Lei Yang* (equal contributions), Yuan Liu, Congyi Zhang, Junhui Hou, Xiaogang Jin, Taku Komura, John Keyser, Wenping Wang. On Optimal Sampling for Learning SDF Using MLPs Equipped with Positional Encoding. *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 2025.
2. Congyi Zhang*, **Guying Lin*** (equal contribution), Lei Yang, Xin Li, Taku Komura, Scott Schaefer, John Keyser, Wenping Wang. Surface extraction from neural unsigned distance fields. *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV)*, 2023
3. Lingting Zhu, **Guying Lin**, Jinnan Chen, Xinjie Zhang, Zhenchao Jin, Zhao Wang, Lequan Yu. Large Images are Gaussians: High-quality Large Image Representation with Levels of 2D Gaussian Splatting. *The Annual AAAI Conference on Artificial Intelligence (AAAI)*, 2025
4. Peng Wang, Yuan Liu, **Guying Lin**, Jiatao Gu, Lingjie Liu, Taku Komura, Wenping Wang. ProLiF: Progressively-connected Light Field network for efficient view synthesis. *Computers & Graphics*, 2024.
5. Lingting Zhu, Zhao Wang, Zhenchao Jin, **Guying Lin**, Lequan Yu. Deformable endoscopic tissues reconstruction with gaussian splitting. *International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI EARTH)*, 2024.

RESEARCH EXPERIENCES

Computer Graphics and Visualization Lab at HKU

July 2022 - Aug. 2024

- **Advisor:** Prof. Wenping Wang
- **Research Area:** Neural implicit surface representation
Explore a series of topics in neural implicit representation, aiming at developing versatile, efficient, and feature-preserving representations.

TEACHING EXPERIENCES

Teaching Assistant at HKU

Sept. 2022 - Feb. 2024

- **Courses:** Computer Vision, Java Programming

AWARDS

- {2019-2020, 2020-2021, 2021-2022} Scholarship for Pilotage (CHU KOCHEN Honors College Outstanding Students Awards)
- 2019-2020 WangLaoJi Scholarship
- 2020-2021 ZJU First-grade Scholarship
- 2021-2022 Zhejiang Provincial Government Scholarship
- 2019 Second Class Prize in Mathematics Competition for College Students in Zhejiang Province
- 2022 Honored Graduate of CHU KOCHEN Honors College
- 2022 Honored Graduate of Zhejiang University

PERSONAL

- **Languages:** Mandarin (native), English (fluent; TOEFL: 110)
- **Technical Skills:** Python, C++, Unreal Engine4, Substance 3D Painter, Maya, Unity, Zbrush, React
- **Hobbies:** Sketch, Watercolor Painting, Chinese Calligraphy, Latin Dance, Cooking
- **Extracurricular Activities:** Intern journalist at Qianjiang Evening News, Minister of ZJU Youth Volunteer Association