Yuchen Lin

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EDUCATION

Peking University — Beijing, China
Junior Undergraduate. Major in Intelligence Science and Technology (Zhi Class) — Sept. 2022 – Present
- **GPA: 3.80**/4.0 (Specialized)
- **Core Courses:** Advanced Mathematics I/II (96/95), Probability Theory and Statistics (99), Introduction to Computation (94), Introduction to Artificial Intelligence (93.5), Practice of Software Design (93), Research Practice for Intelligence Science I/II (94/93)
- **Standard Tests:** TOEFL 111 (Speaking 23), CET-6 622

Carnegie Mellon University — Pittsburgh, PA
Exchange Student. Major in Computer Science — Aug. 2024 – Present
- **Core Courses (Latest Grade):** 10301 Introduction to Machine Learning (94.5), 10423 Generative AI (90.5)

PUBLICATIONS AND MANUSCRIPTS

* indicates equal contributions

- About general physics-based 3D dynamic scene generation with Gaussian Splatting
  Due to the double-blind reviewing requirement, please email me for more details
  <u>Yuchen Lin</u>, Chenguo Lin, Jianjin Xu, Yadong Mu
  Under review by International Conference on Learning Representations (**ICLR**), 2025 (score: 86666)

- **InstructLayout: Instruction-Driven 2D and 3D Layout Synthesis with Semantic Graph Prior**
  Chenguo Lin* , <u>Yuchen Lin</u>* , Panwang Pan, Xuanyang Zhang, Yadong Mu
  Under review by Transactions on Pattern Analysis and Machine Intelligence (**T-PAMI**), 2024

EXPERIENCE

Human Sensing Lab — Carnegie Mellon University
Research Intern — Sept. 2024 – Present
Advisor: Prof. Fernando De la Torre
- **Research Topic:** 3D human head generation
- Exploring 3D human head generation with pretrained 2D generative models. This work is expected to be submitted to a top-tier conference.

Machine Intelligence Lab — Peking University
Research Intern — Sept. 2023 – Present
Advisor: Prof. Yadong Mu
- **Research Topic:** 3D semantic learning, static and dynamic scene generation
- Proposed a unified framework for 2D and 3D instruction-driven layout synthesis with a semantic graph prior. New datasets have been curated to enhance further research. This work has resulted in a top-tier journal submission.
- Proposed a novel method for general physics-based 3D dynamic scene generation with Gaussian splatting. This work has resulted in a top-tier conference submission.

AWARDS

- **Award for Scientific Research**, 2024
- Zhi Class Scholarship, 2024
- Robin Li Scholarship (25 awards per year in Peking University), 2023
- Merit Student, 2023
- XiaoSong Scholarship of Fuguang Foundation (**4/200k+** every year in Fujian Province), 2022
- First Prize in China Physics Olympiad (Fujian Province), 2020

EXTRACURRICULAR ACTIVITIES

EECS School Soccer Team — Peking University
Team Member — Sept. 2022 – Present
- **Silver Medal** in 2022 Freshman Soccer Cup of Peking University
- **Bronze Medal** in 2024 Peking University Soccer Cup