

Jiyao Zhang

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Shenyang, Liaoning province, China

Education

- **University of Science and Technology of China** 09/2020 - 06/2024
Bsc in Mathematics and applied mathematics, school of the Gifted Young Anhui, China

Research Experience

- **Undergraduate Innovation and Entrepreneurship Training Program** 04/2022 - 04/2023
Project Leader Anhui, China
 - Writing a survey of ergodic optimization and topological dynamical systems [\[📄\]](#)
- **Zhejiang Lab** [\[🌐\]](#) 09/2023 - 04/2024
Intern Hangzhou, China
 - Proposed a solution to address the latent gaps in Image-to-3D models based on 3D Gaussian representation, significantly improving the visual quality of the generated models. [\[📄\]](#)
- **NEUNLP Lab** [\[🌐\]](#) 08/2024 - Now
Intern Shenyang, China
 - Exploring RAG technology, the application of LLMs, and AI for Automated Theorem Proving now.

Projects

- **Complexity of optimal measures: [Grade: A]** 04/2022 - 04/2023
Tools: [Ergodic Optimization, Topological Dynamical Systems, Entropy] [\[📄\]](#)
 - Conducted a comprehensive review of extremal measures' complexity, summarizing recent advances. Investigated the cases of extremal measures with periodic orbits and zero entropy.
- **The foundation and latest development of 3D generative model: [Grade: A+]** 09/2023 - 06/2024
Tools: [AIGC, Diffusion models] [\[📄\]](#)
 - Provided a comprehensive review of the latest advancements in AIGC for 3D generation, focusing on the development of foundational technologies such as Diffusion models.
- **Research on 3D Object Generation Based on Single-view Image: [Grade: A-]** 09/2023 - 06/2024
Tools: [3D Gaussian, Nerf, AIGC] [\[📄\]](#)
 - Suggested replacing 3D Gaussian with NeRF in the final mesh extraction step to address the latent gaps in 3D Gaussian representation, significantly improving the visual output.

Honors and Awards

- **Outstanding Freshman Scholarship Grade 3** 09/2020
- **Outstanding Student Scholarship Grade 3** 09/2023
- **Qiangwei Scholarship** 09/2023
- **Third Prize in the National College Mathematics Competition** 09/2021

Certifications

- **FreeCodeCamp:** [Scientific Computing](#),[Data Analysis](#),[Machine Learning](#),[College Algebra](#) 10/2024
- **Huggingface:** [Deep RL Course](#) 10/2024

Related Courses

- **CS & AI(Self-learning):** [USTC CG](#), [Stanford:CS221](#),[CS224n](#),[CS224u](#),[CS229](#) 2020-2024
- **Mathematics(Graduate):** [Optimization-algorithm](#),[Numerical-analysis](#),[Operations Research](#) 2020-2024

Talks

- **Graduation Speech:** [Why I Decided to Quit Mathematics in the End](#) 06/2024

Skills

- **Programming Languages:** [Python](#),[MATLAB](#),[C](#),[C++](#),[Latex](#),[Lean](#)
- **Languages:** English: IELTS 7.0(R8.5,L7.5,W6.5,S6.0);GRE 320(V153,Q167,AW3.5)
- **Writing:** [Poetry Collection](#) [Wechat Official Account](#)