

Xindi Yang

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EDUCATION

Beijing Jiaotong University

Master of Computer Science and Technology

- GPA: 84/100

expected July 2024

Supervised by Prof. Yi Liu

Beijing Jiaotong University

Bachelor of Computer Science and Technology

- GPA: 87.9/100 (10th/219)

July 2020

PUBLICATIONS & MANUSCRIPTS

- Zeke Xie*, **Xindi Yang***, Yujie Yang, Qi Sun, Yixiang Jiang, Haoran Wang, Yunfeng Cai, Mingming Sun, "S3IM: Stochastic Structural SIMilarity and Its Unreasonable Effectiveness for Neural Fields", **ICCV 2023** (*equal contribution).
- **Xindi Yang**, Zeke Xie, Xiong Zhou, Boyu Liu, Buhua Liu, Yi Liu, Haoran Wang, Yunfeng Cai, Mingming Sun, "Neural Field Classifiers via Target Encoding and Classification Loss", **ICLR 2024** under review(review **top 20%**).
- Xinyu Yang, Runhan Li, **Xindi Yang**, Yong Zhou, Yi Liu, Jing-Dong J. Han, "Coordinate-Wise Monotonic Transformations for PrivacyPreserving Facial Age Estimation", **Science China Life Sciences** under review.

EXPERIENCE

Research Intern

Cognitive Computing Lab, Baidu Research

May 2022 – Present

Supervised by Dr. Zeke Xie

- **Autonomous Driving Scene Simulation**
 - * Utilizing 3D vision techniques and generative models to develop realistic and controllable street simulations.
- **Neural Fields**
 - * Design a non-local multiplex training paradigm for NeRF, leveraging non-loacal patch to extract the global structural information. One paper published.
 - * Propose classifier-based architecture to provide more stable supervised information in learning process of neural fields. One paper is under review.

Visiting Student

Han lab, Peking University

October 2020 – January 2022

Supervised by Prof. Jing-Dong J. Han

- **Aging Research in 3D Human Face**
 - * Analyzed the relation between aging human faces and proposed to leverage the invariant perceptual feature in aging human face to protect the privacy. One paper is under review.
 - * Developed a software to visualize aging process, serving thousands of people in TangShan.

PROJECTS

S3IM | Project Page

August, 2023

- Unreasonable improvement in the quality of reconstruction(e.g. **198% F-score** gain in NeUS over eight complex scene). Github stars **150+**. SDFStudio has supported our S3IM method;
- **Academic Impact**: S3IM is promoted by more than 5 media and forums, such as [Zhihu](#) and [CVhub](#)

HONORS & AWARDS

- 2023, **Outstanding Intern** of the Year, Baidu Research
- 2016-2022, Model Student of Academic Records of Beijing Jiaotong University
- 2018, National Contemporary Undergraduate Mathematical Contest IN Modeling in China, **First Prize** in Beijing

MISCELLANEOUS

Programming: Python, PyTorch, C++, Matlab, Bash, MySQL, L^AT_EX

Developer Tools: git, shell, docker