

# Xindi Yang

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## EDUCATION

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### 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

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- **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.
- 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).
- 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** 2024.

## EXPERIENCE

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### Research Intern

Cognitive Computing Lab, Baidu Research

May 2022 – Present

Supervised by Dr. Zeke Xie

- **Autonomous Driving Scene Simulation**

- \* Utilize 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 has been accepted.

### 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 has been accepted.

- \* Developed a software to visualize aging process, serving thousands of people in TangShan.

## PROJECTS

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### 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 **200+**. SDFStudio has supported our S3IM;
- **Academic Impact**: S3IM is promoted by more than 5 media and forums, such as [Zhihu](#) and [CVhub](#).

## HONORS & AWARDS

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- 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

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**Programming**: Python, PyTorch, C++, Matlab, Bash, MySQL, L<sup>A</sup>T<sub>E</sub>X

**Developer Tools**: git, shell, docker