

# Xindi Yang

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## EDUCATION

### Beijing Jiaotong University

*Master of Computer Science*

- GPA: 3.40/4.0

expected July 2024

*Supervised by Prof. Yi Liu*

### Beijing Jiaotong University

*Bachelor of Computer Science*

- GPA: 3.80/4.0 (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
- **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
- 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 Jackie 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<sup>A</sup>T<sub>E</sub>X

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