# 👤 YU CHEN

- 📱 TEL: (+65)85733912/(+86)18811765954
- ✉ Email: hackerdreamer34@gmail.com
- 🐙 Github: https://github.com/AIBluefisher
- 🏠 Homepage: https://aibluefisher.github.io

## 🎓 EDUCATION

| | | | |
|---|---|---|---|
| ◖ **Ph.D student** | **National University of Singapore** | **Dept. Computer Science** | 2022.01-**now** |
| ◖ **M.S.** | **Peking University** | **Computer Software and Theory** | 2017.09 − 2020.06 |
| ◖ **B.S.** | **Beihang University** | **Software Engineering** | 2013.09 − 2017.06 |

## ✈ PUBLICATIONS

### Conferences/Journals

**Yu Chen**, Gim Hee Lee. **SCALAR-NeRF: SCAlable LARge-scale Neural Radiance Fields for Scene Reconstruction**, Under Submission [ 📄 | 🜉 ]

Zhiwen Yan, Weng Fei Low, **Yu Chen**, Gim Hee Lee. **Multi-Scale 3D Gaussian Splatting for Anti-Aliased Rendering**, Under Submission

**Yu Chen**, Gim Hee Lee. **DReg-NeRF: Deep Registration for Neural Radiance Fields**, In International Conference on Computer Vision (ICCV) 2023 [ 📄 | 🜉 ]

**Yu Chen**, Gim Hee Lee. **DBARF: Deep Bundle-Adjusting Generalizable Neural Radiance Fields**, In IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2023 [ 📄 | 🜉 ]

**Yu Chen**, Zihao Yu, Shu Song, Tianning Yu, Jianming Li, Gim Hee Lee. **AdaSfM: From Coarse Global to Fine Incremental Adaptive Structure from Motion**, In IEEE International Conference on Robotics and Automation (ICRA) 2023 [ 📄 | 🜉 ]

**Yu Chen**, Ji Zhao, Laurent Kneip. **Hybrid Rotation Averaging: A Fast and Robust Rotation Averaging Approach**, In IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2021 [ 📄 | 🜉 ]

**Yu Chen**, Shuhan Shen, Yisong Chen, Guoping Wang. **Graph-Based Parallel Large Scale Structure from Motion**, Pattern Recognition (PR) 2020 [ 📄 | 🜉 ]

**Yu Chen**, Wang Yao, Lu Peng, Chen Yisong, Wang Guoping. **Large-Scale Structure from Motion with Semantic Constraints of Aerial Images**, The First Conference of Pattern Recognition and Computer Vision (PRCV) 2018, China [ 📄 | 🜉 ]

### Seminar

**Yu Chen**, Yisong Chen, Guoping Wang. **Bundle Adjustment Revisited**, The 14th Joint Workshop on Machine Perception and Robotics 2018, Japan [ 📄 ]

### Thesis

**Yu Chen.** Graph-Based Distributed Large-Scale Structure-from-Motion Algorithm. (Master Thesis)

# 🔖 EXPERIENCE

| **Segway-Ninebot** | **SLAM Engineer (full-time)** | **SLAM Group** | 2020.07 **-** 2021.12 |
| **TuSimple** | **Research Intern** | **Localization & High-Definition Map** | 2019.04 **-** 2019.07 |
| **Megvii (Face++)** | 3**D Reconstruction Intern** | **SLAM Group** | 2018.09 **-** 2018.12 |

# 💠 AWARDS AND SCHOLARSHIPS

▸ 2023.11. Google Ph.D Fellowship

▸ 2023.08. Research Achievement Award of SoC, NUS

▸ 2022.01-now. Research Scholarship of SoC, NUS

▸ 2019.11. The 2nd place in 3D Reconstruction Track, the 2nd China Virtual Reality and Application Innovation Challenge

▸ 2017.07-2020.06. Academic Scholarship, Peking University

▸ 2018 Spring. The 2nd place in 3v3 basketball game, Peking University

▸ 2014 Spring. One of the Top Ten Broadcasting Hosts, Beihang University

▸ 2013 Fall. The 1st place in speech contest, Beihang University

# 🤖 PROFESSIONAL SERVICES

▸ Conference Reviewer: NeurIPS 2023, BMVC 2023, ICLR 2024, CVPR 2024

▸ Journal Reviewer: IJCV, TIP, TMM

▸ Teaching Assistant:
- CS4277/CS5477 - 3D Computer Vision (2022/2023), NUS;
- CS4239/$CS$5439 - Software Security (2023/2024), NUS

▸ Teaching Assistant: Python Programming (2018/2019), Peking University

# 🔲 PROFESSIONAL SKILLS

▸ Languages: Chinese (native), English

▸ Programming Languages: C++, C, Python, MATLAB, C#, JAVA, JavaScript, HTML+CSS

▸ Others: ROS, Docker, Linux