

# YU CHEN

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## EDUCATION

- |                |                                  |                              |                            |
|----------------|----------------------------------|------------------------------|----------------------------|
| 🎓 Ph.D student | National University of Singapore | Computer Science             | 2022.01-2025.06 (expected) |
| 🎓 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. **DOGS: Distributed-Oriented Gaussian Splatting for Large-Scale 3D Reconstruction Via Gaussian Consensus**, Neural Information Processing Systems (NeurIPS) 2024 [  |  ]

Zhiwen Yan, Weng Fei Low, Yu Chen, Gim Hee Lee. **Multi-Scale 3D Gaussian Splatting for Anti-Aliased Rendering**, In IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2024 [  |  ]

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 [  |  ]

### 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++)	3D Reconstruction Intern	SLAM Group	2018.09 - 2018.12

## AWARDS AND SCHOLARSHIPS

- 2024.09. Chinese Government Award for Outstanding Self-Financed Students Abroad
- 2024.01. Dean's Graduate Research Excellence Award of SoC, NUS
- 2023.11. [Google Ph.D Fellowship 2023](#)
- 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. 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, ICML 2024, NeurIPS 2024, AAAI 2025, ICLR 2025
- Journal Reviewer: IJCV, TIP, TMM, PAMI
- Teaching Assistant:
  - CS4277/CS5477 - 3D Computer Vision (2022/2023), NUS;
  - CS4239/CS5439 - Software Security (2022/2023), NUS;
  - CS4277/CS5477 - 3D Computer Vision (2023/2024), NUS;
  - 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