YU CHEN

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EDUCATION

Ph.D	**National University of Singapore**	**Computer Science**	2022.01 – 2025.09
M.Sc	**Peking University**	**Computer Software and Theory**	2017.09 – 2020.06
B.Eng	**Beihang University**	**Software Engineering**	2013.09 – 2017.06

PUBLICATIONS

Conferences/Journals

Yu Chen, Rolandos Alexandros Potamias, Evangelos Ververas, Jifei Song, Jiankang Deng, Gim Hee Lee. **Deep Gaussian from Motion: Exploring 3D Geometric Foundation Models for Gaussian Splatting**, NeurIPS 2025 [|]

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. Large-Scale Neural 3D Reconstruction, Rendering, and Beyond. (Ph.D Thesis)

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

EXPERIENCE

Huawei London	**Research Scientist Intern**	**Noah Ark Lab**	2024.05 – 2024.08
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

- 2025.01. Research Achievement Award of SoC, NUS
- 2024.09. Chinese Government Award for Outstanding Self-Financed Students Abroad
- 2024.01. Dean's Graduate Research Excellence Award, NUS
- 2023.11. Google Ph.D Fellowship 2023
- 2023.08. Research Achievement Award of SoC, NUS
- 2022.01-2025.06. Research Scholarship of SoC, NUS
- 2019.11. The 2nd place, 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 – 2025, BMVC 2023, ICLR 2024 – 2025, CVPR 2024 – 2025, ICCV 2025, ICML 2024, AAAI 2025
- Journal Reviewer: T-PAMI, IJCV, TIP, TMM
- Teaching Assistant:
  - CS2109S - Introduction to AI and Machine Learning (2023/2024), NUS;
  - CS4277/CS5477 - 3D Computer Vision (2023/2024), NUS;
  - CS4277/CS5477 - 3D Computer Vision (2022/2023), NUS;
  - CS4239/*CS*5439 - Software Security (2022/2023), 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