

Sijin Chen

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EDUCATION

- **Fudan University** Shanghai, China
Master of Engineering in Electrical and Electronics. (GPA 3.56/4.00, rank 30/351) Sep. 2021 – Jun. 2024
Supervised by Prof. Tao Chen.
- **Fudan University** Shanghai, China
Bachelor of Data Science. (GPA 3.20/4.00) Sep. 2017 – Jun. 2021

RESEARCH INTERESTS

- My current research interests include: *3D scene understanding*, *vision and language*, and *multi-modal learning*.

PUBLICATIONS AND PROJECTS

- **Conference Proceedings**
 - [CVPR 2023] **Sijin Chen**, Hongyuan Zhu, Xin Chen, Yinjie Lei, Gang Yu, and Tao Chen[†]. *End-to-End 3D Dense Captioning with Vote2Cap-DETR*. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, pages 11124–11133, 2023. [arXiv] [code] [youtube].
[Summary]: We address 3D Dense Captioning as a set prediction problem with parallel decoding.
- **Manuscripts Under Review**
 - [arXiv] **Sijin Chen**, Hongyuan Zhu, Mingsheng Li, Xin Chen, Peng Guo, Yinjie Lei, Gang Yu, Taihao Li, and Tao Chen[†]. *Vote2Cap-DETR++: Decoupling Localization and Describing for End-to-End 3D Dense Captioning*. arXiv preprint arXiv:2309.02999, 2023. [arXiv] [code].
[Summary]: Decoupled feature extraction and task decoding for 3D Dense Captioning.
 - Mingsheng Li, **Sijin Chen**, Shengji Tang, Hongyuan Zhu, Fukun Yin, Tao Chen[†]. *WI3D: Weakly Incremental 3D Detection via Visual Prompts*.
[Summary]: Introduce novel concepts to a 3D object detector with 2D foundation models.
- **Other Projects**
 - [Undergraduate Thesis] *Self-Supervised Pre-training on 3D Point Clouds*.
[Supervisor] Prof. Tao Chen, School of Information Science and Technology, Fudan University.
[Summary]: Global and patch-level contrastive learning for 3D point clouds.

INTERNSHIP

- **Huawei Technologies Shanghai R&D Center** Shanghai, China
AI Engineer, Supervised by Dr. Zhiwen Cheng Jul. 2020 – Oct. 2020
 - **Research on Convex Optimization Algorithms for Compressed Sensing.**

INVITED TALKS

- Winner presentation of the *Scan2Cap Challenge* in the *3rd Language for 3D Scene Workshop, ICCV 2023*. [slides].
- Paper presentation at the *Workshop for Advances in 3D Vision, VALSE 2023*, Wixi, China.

COMPETITION AWARDS AND SCHOLARSHIPS

- **2023.10** 1st place of the Scan2Cap Challenge in the 3rd Language for 3D Scene Workshop at *ICCV 2023*.
- **2022.09 - 2023.06** National Award (rank 1/46).
- **2021.09 - 2022.06** 2nd prize of the Scholarship for Outstanding Students of Master's Degrees at Fudan University.
- **2021.09** Award for the Scholarship for Outstanding Students of Master's Degrees at Fudan University.
- **2020.09 - 2021.06** 2nd prize of the Scholarship for Outstanding Students at Fudan University.