

# SIJIN CHEN

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[Homepage](#) | [GitHub](#) | [Google Scholar](#)

## EDUCATION

<b>Master, Engineering in Electrical and Electronics</b> (GPA 3.56/4.00, rank 30/351) Fudan University. Supervised by <a href="#">Prof. Tao Chen</a> .	Sep. 2021 - Jun. 2024 Shanghai, China
<b>Bachelor, Data Science</b> (GPA 3.20/4.00) Fudan University.	Sep. 2017 - Jun. 2021 Shanghai, China

## RESEARCH INTERESTS

- **Multi-modal Learning**    Vision and Language    3D and 2D
- **3D Vision**    3D scene understanding    3D detection

## PUBLICATIONS AND PRE-PRINTS ([GOOGLE SCHOLAR](#))

- End-to-End 3D Dense Captioning with Vote2Cap-DETR.  
[Sijin Chen](#), Hongyuan Zhu, Xin Chen, Yinjie Lei, Gang Yu, Tao Chen<sup>†</sup>  
[[CVPR 2023](#) | [paper](#) | [github](#) | [youtube](#)]  
[Summary]: We address 3D Dense Captioning as a set prediction problem with parallel decoding.
- Vote2Cap-DETR++: Decoupling Localization and Describing for End-to-End 3D Dense Captioning.  
[Sijin Chen](#), Hongyuan Zhu, Mingsheng Li, Xin Chen, Peng Guo, Yinjie Lei, Gang Yu, Taihao Li, Tao Chen<sup>†</sup>  
[[Pre-print](#) | [paper](#) | [github](#)]  
[Summary]: Decoupled feature extraction and task decoding for 3D Dense Captioning.
- WI3D: Weakly Incremental 3D Detection via Visual Prompts.  
Mingsheng Li, [Sijin Chen](#), Shengji Tang, Hongyuan Zhu, Fukun Yin, Tao Chen<sup>†</sup>  
[[Under Review](#)]  
[Summary]: Introduce novel concepts to a 3D object detector with 2D foundation models.

## OTHER PROJECTS

**Self-Supervised Pre-training on 3D Point Clouds.**    Oct. 2020 - May. 2021  
Undergraduate Thesis supervised by [Prof. Tao Chen](#). Developed a self-supervised learning algorithm that learns global- and patch-level contrastive representations for 3D point clouds.

## SCHOLARSHIPS AND AWARDS

National Award (rank 1/46).	Sep. 2023
Second prize of the Scholarship for Outstanding Students at Fudan University.	Sep. 2022
Award for the Scholarship for Outstanding Students at Fudan University.	Sep. 2021
Second prize of the Scholarship for Outstanding Students at Fudan University.	Jun. 2021
First place winner of the Scan2Cap Challenge at ICCV 2023.	Oct. 2023

## INVITED TALKS

Winner presentation of the Scan2Cap Challenge at ICCV 2023. [ <a href="#">slides</a> ]	Oct. 2023
Paper presentation at the workshop for 3D vision, VALSE 2023.	Apr. 2023

## INTERNSHIPS

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

## REFERENCES

<a href="#">Prof. Tao Chen</a>	Supervisor	FUDAN UNIVERSITY	<a href="mailto:eetchen@fudan.edu.cn">eetchen@fudan.edu.cn</a>
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