# Xiaoyan Cong

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## Education

**BS in Robotics Engineering** *GPA 3.97/4.00*

Chu Kochen Honors College, Zhejiang University, Hangzhou China Sep. 2020 - Present

**Minoring in "AI+X" Micro-Major**

Established by Zhejiang University, Fudan University, University of Science and Technology of China, Shanghai Jiaotong University, Nanjing University and Tongji University, Huawei, Baidu and SenseTime under the organization of the Teaching Collaboration Center of the Five Universities in East China. Feb. 2021 - Present

**Exchange Student**

School of Engineering, The Hong Kong University of Science and Technology, Hong Kong China Feb. 2023 - June. 2023

## Technical Skills

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|---|---|
| **Programming** | C/C++, Python(Pytorch), Markdown, Lingo, Matlab |
| **Professional Softwares** | Linux, Simulink, Multisim, SolidWorks, Inventor, AutoCAD, CoppeliaSim, MeshLab |
| **Drawing & Typesetting** | Office, LaTeX |
| **Languages** | Chinese(Native), English |

## Research Projects

**Research on 3D reconstruction and novel niew synthesis** *Mentor: Prof. Xiaowei Zhou*

Guided by Sida Peng and Bojian Wu, I am exploring how to generate high-quality novel view images of refractive and reflective objects with the aid of polarization, and how to accurately reconstruct the geometry and reproduce the appearance of glossy and specular objects on the gound of neural implicit 3D representations and differentiable rendering. Oct. 2022 - Present

**Research on Autonomous Driving: Detection and Tracking of Millimeter Wave Radar** *Mentor: Prof. Rong Xiong*

Advised by Prof. Rong Xiong and Prof. Yue Wang, I have finished the Deep Scientific Research Training Program of Chu Kochen Honors College on "Detection and Tracking of Millimeter Wave Radar", which is awarded as excellent ( 10 in total ). The project focused on exploring how to combine vision sensors(RGB camera) and millimeter-wave radars to increase the accuracy of object detection. June. 2021 - June. 2022

**Research on Deep Learning: Cross-domain Performance Evaluation Method** *Mentor: Prof. Wei Jiang*

Advised by Prof. Jiang Wei, I am participating in a Student Research Training Program(SRTP) on "Cross-domain performance evaluation method of pedestrian re-identification model based on model parameter distribution", focusing on exploring the relationship between data domain(original & target) and model parameters, realizing online evaluation of model performance, and laying a foundation for the further online model update. June. 2022 - Present

## Awards and Honors

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|---|---|
| 2020-2021 | **Scholarship**: China National Scholarship |
| 2020-2021 | **Scholarship**: First Prize Scholarship of Zhejiang University |
| 2020-2021 | **Scholarship**: Chu Kochen Honor College Leading Scholarship of Zhejiang University |
| 2021-2022 | **Scholarship**: Chu Kochen Honor College Excellence Scholarship of Zhejiang University(top in college) |
| 2021-2022 | **Scholarship**: Zhejiang Provincial Government Scholarship |
| 2021-2022 | **Scholarship**: First Prize Scholarship of Zhejiang University |
| 2021-2022 | **Scholarship**: Phoenix Special Scholarship |
| Feb. 2021 | **Contest**: Honorable Mention in 2022 Mathemetical Contest In Modeling |
| Nov. 2021 | **Contest**: The first prize of Zhejiang Province in the 13th National College Students Mathematics Competition (non-mathematical category) |

## Campus Experience

**Student Union of Zhejiang University Chu Kochen Honor College**

Member of Academic Department — Sep. 2020 - June. 2021

**Student Union of Zhejiang University Chu Kochen Honor College**

Head of Academic and Development Innovation Department — June. 2021 - Present

**Go Team of Zhejiang University**

Main Player of the Team. Award: First place in Hangzhou University Go Tournament Team. — Sep. 2020 - Present

**Eloquence Association of Zhejiang University**

Member of Debate Team. Award: Runner-up of the 18th Zhejiang University Freshman Debate Competition. — Oct. 2020 - Present

**Artificial Intelligence Association of Zhejiang University**

Member of External Liaison Department — Sep. 2022 - Present

# Hobbies

2008 - present **Go Player**: Amateur 5-dan, National second-level athlete

2014 - present **Saxophone**: Amateur 10-level(Top in Amateur)

2009 - present **Piano**: Amateur 8-level