

# Zhefei Gong

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## Education

### École polytechnique fédérale de Lausanne (EPFL)

Lausanne, Switzerland

EXCHANGE STUDENT IN **COMPUTER SCIENCE**, SCHOOL OF COMPUTER & COMMUNICATION SCIENCE

Sept 2023 - Feb 2024

- Lab: VITA

### Tongji University

Shanghai, China

B.ENG. IN **COMPUTER SCIENCE**, COLLEGE OF ELECTRONIC & INFORMATION ENGINEERING

Sept 2020 - Jun 2024 (expected)

- GPA: 91.3/100

## Research Experience

### Visual Intelligence for Transportation Lab, EPFL

Lausanne, Switzerland

Semester Program, Advised by Prof. Alexandre Alahi

Sept 2023 - Jan 2024

#### Project: On the Synergy of Structured Visual Representation Learning and Embodied Self-Supervised Learning

- Recently AI agents rely excessively on human annotations and struggle to discover the latent structures of the physical world.
- Aim to address the challenges by synergizing structured visual representation learning with embodied self-supervised learning.

### Learning and Inference Systems Lab, WestLake University

Hangzhou, China

Research Intern, Advised by Prof. Tao Lin

Jun 2023 - Sept 2023

- Try to revisit causal representation learning from an embodied agent perspective, where an agent can dynamically and intentionally intervene its surroundings in order to discover stable and reusable pieces of knowledge.

### Intelligent Robotic and Computational Perception Lab, Tongji University

Shanghai, China

Research Intern, Advised by Prof. Zhongpan Zhu

Jun 2022 - Sept 2022

#### Project: Vehicle re-identification using spatio-temporal correlation

- Design a smart park unmanned parking method based on spatiotemporal vehicle re-identification. And the patent is under review now.
- This is my first research project, which ignited my research interest on AI and real-world scene. I independently handled the majority of the coding, writing, and plotting.

## Awards & Honors

### COMPETITION ACHIEVEMENTS

2022	<b>National First Prize</b> , Intelligent Robot Fighting and Gaming Competition	CAAI
	Design machine vision, navigation, control and other algorithms to use robots to complete established tasks.   Team Leader	
2022	<b>The Second prize in East China Region</b> , National Intelligent Car Competition for Undergraduates	CAA
	Design and manufacture intelligent vehicles using vision, control, navigation and other technologies to complete certain tasks.   Team Leader	
2022	<b>The Third prize</b> , Mathematical Contest in Modeling	CSIAM
	Apply mathematical, statistics, machine learning, etc. to solve real-world issues.   Key Member	

### PERSONAL HONORS

22-23	<b>LuHao Scholarship (1/119)</b> , honor	Tongji University
20-22	<b>Merit Scholarship (10%, twice)</b> , honor	Tongji University
20-23	<b>Social Activity Scholarship (three times)</b> , honor	Tongji University

## Skills

<b>Programming</b>	C/C++, Python, Verilog, HTML/CSS, JavaScript, SQL, Arduino, etc.
<b>Frameworks</b>	Pytorch, NumPy, OpenCV, OpenMV, Qt, etc.
<b>Soft Skills</b>	Public Speaking and Presentation, Time Management, Teamwork, etc.

## Language

<b>Chinese</b>	Native
<b>English</b>	Fluent (C1)
<b>French</b>	Preliminary