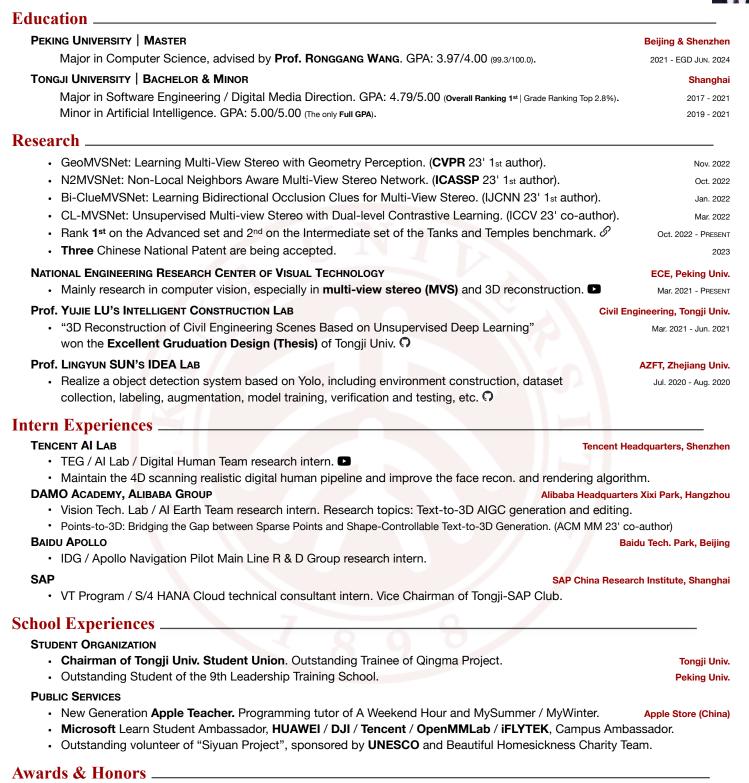# ZHE ZHANG

Artificial Intelligence / Computer Vision

📞 (+86)17675470108 | ✉ doublez@stu.pku.edu.cn | 💬 doubleZ0108 | 🏠 www.doublez.site | ⬛ doubleZ0108 | 🔗 doubleZ0108 | 知 doubleZ0108

Education

PEKING UNIVERSITY | MASTER
Beijing & Shenzhen

Major in Computer Science, advised by **Prof. RONGGANG WANG**. GPA: 3.97/4.00 (99.3/100.0).
2021 - EGD JUN. 2024

TONGJI UNIVERSITY | BACHELOR & MINOR
Shanghai

Major in Software Engineering / Digital Media Direction. GPA: 4.79/5.00 (**Overall Ranking 1st** | Grade Ranking Top 2.8%).
2017 - 2021

Minor in Artificial Intelligence. GPA: 5.00/5.00 (The only **Full GPA**).
2019 - 2021

Research

- GeoMVSNet: Learning Multi-View Stereo with Geometry Perception. (**CVPR** 23' 1st author). — Nov. 2022
- N2MVSNet: Non-Local Neighbors Aware Multi-View Stereo Network. (**ICASSP** 23' 1st author). — Oct. 2022
- Bi-ClueMVSNet: Learning Bidirectional Occlusion Clues for Multi-View Stereo. (IJCNN 23' 1st author). — Jan. 2022
- CL-MVSNet: Unsupervised Multi-view Stereo with Dual-level Contrastive Learning. (ICCV 23' co-author). — Mar. 2022
- Rank **1st** on the Advanced set and 2nd on the Intermediate set of the Tanks and Temples benchmark. 🔗 — Oct. 2022 - PRESENT
- **Three** Chinese National Patent are being accepted. — 2023

NATIONAL ENGINEERING RESEARCH CENTER OF VISUAL TECHNOLOGY
ECE, Peking Univ.

- Mainly research in computer vision, especially in **multi-view stereo (MVS)** and 3D reconstruction. ▶ — Mar. 2021 - PRESENT

Prof. YUJIE LU'S INTELLIGENT CONSTRUCTION LAB
Civil Engineering, Tongji Univ.

- "3D Reconstruction of Civil Engineering Scenes Based on Unsupervised Deep Learning" won the **Excellent Gruduation Design (Thesis)** of Tongji Univ. ⭕ — Mar. 2021 - Jun. 2021

Prof. LINGYUN SUN'S IDEA LAB
AZFT, Zhejiang Univ.

- Realize a object detection system based on Yolo, including environment construction, dataset collection, labeling, augmentation, model training, verification and testing, etc. ⭕ — Jul. 2020 - Aug. 2020

Intern Experiences

TENCENT AI LAB
Tencent Headquarters, Shenzhen

- TEG / AI Lab / Digital Human Team research intern. ▶
- Maintain the 4D scanning realistic digital human pipeline and improve the face recon. and rendering algorithm.

DAMO ACADEMY, ALIBABA GROUP
Alibaba Headquarters Xixi Park, Hangzhou

- Vision Tech. Lab / AI Earth Team research intern. Research topics: Text-to-3D AIGC generation and editing.
- Points-to-3D: Bridging the Gap between Sparse Points and Shape-Controllable Text-to-3D Generation. (ACM MM 23' co-author)

BAIDU APOLLO
Baidu Tech. Park, Beijing

- IDG / Apollo Navigation Pilot Main Line R & D Group research intern.

SAP
SAP China Research Institute, Shanghai

- VT Program / S/4 HANA Cloud technical consultant intern. Vice Chairman of Tongji-SAP Club.

School Experiences

STUDENT ORGANIZATION

- **Chairman of Tongji Univ. Student Union**. Outstanding Trainee of Qingma Project. — **Tongji Univ.**
- Outstanding Student of the 9th Leadership Training School. — **Peking Univ.**

PUBLIC SERVICES

- New Generation **Apple Teacher.** Programming tutor of A Weekend Hour and MySummer / MyWinter. — **Apple Store (China)**
- **Microsoft** Learn Student Ambassador, **HUAWEI / DJI / Tencent / OpenMMLab / iFLYTEK**, Campus Ambassador.
- Outstanding volunteer of "Siyuan Project", sponsored by **UNESCO** and Beautiful Homesickness Charity Team.

Awards & Honors

1. China National Scholarship (Top 0.1%). Outstanding Graduate of Shanghai Province (Top 0.1%). — 2019-2020 | Jun. 2021
2. Pursuit Preeminent Student Award of Tongji Univ. (Highest-level award). — Jun. 2021
3. Model Student (Top 5%), Pingan Scholarship (Top 10%), Social Work Award of Peking University (Top 10%). — 2022-2023 | 2021-2022
4. Excellent Student Model Award (Top 0.1%), Excellent Leadership Award (Top 1%) of Tongji Univ. — 2019-2020 | 2017-2018
5. First-class Scholarship (Top 5%), Social Activity Scholarship (Top 5%), Outstanding Volunteer (Top 0.1%) of Tongji Univ. — 2017-2018 | 2017-2020
6. Finalist Award of MCM/ICM 2020 (Top 1%), the paper was published in ESETEP 2020. — Apr. 2020
7. Mathematical Contest in Modeling of China, 2nd (Top 15%). Shanghai competition area, 1st (Top 10%). — Nov. 2019

Skills

PROGRAMMING LANGUAGES	Python, Matlab, HTML+JavaScript+CSS, C/C++, Java, Shell, C#
FRAMEWORKS	PyTorch, Gatsby, React Native, WeChat Mini Program, SpringBoot, SwiftUI, Neo4j, Simulink
LANGUAGES	English (fluent, CET4 598 | CET6 530), Chinese (Native)
TOOLS	Latex, Unity, Premiere, Maya, R3DS (Track, Wrap4D), Reality Capture, Agisoft Metashape