

## Education

July 2016 - **MSc in Digital Media Technology**, *Nanyang Technological University*, Singapore,  
Sept 2017 *GPA: 4.19 / 5.00.*

Thesis *Generating Bounding-Box Annotations For Large-Scale Image Dataset*

Core Courses *Advanced Computer Graphics, Virtual Reality, 3D Modelling & Reconstruction, 2D & 3D Animation, Image Segmentation*

Sept 2012 - **BS in Computer Science and Technology**, *Northwest University*, Xi'an, China,  
July 2016 *GPA: 3.35 / 4.00.*

Thesis *Image Re-Coloring and Enhancement for Color-Blindness*

Core Courses *C/C++/Java/Assembly Programming Languages, Compiler Principle, Digital Image Processing, Database, Operating Systems*

## Employment

June 2019 - **Engineer (Lecturer-Level)**, *Student Innovation Center, Shanghai Jiao Tong University*,  
Now *Shanghai, China,*

*Course Development and Lecturing.*

Developing and giving lectures for bachelor students, including:

- AI001 - Artificial Intelligence Interaction Technology: Module of OpenCV;
- SI1210 - Engineer Practicing: Modules of MATLAB, RaspberryPi and NI LabVIEW;
- ME901 - Engineering Practice Exploration and Research: Module of OpenCV;
- CS085 - VR/AR Design and Development Practice.

*Student Management.*

- Organizing and managing students in course like SI1210 (Engineer Practicing), coordinating resources in between different teachers.
- Managing students finish projects in the course with compulsory technical support.
- Managing students from the club: Future Reality Club (VR/AR).
- Supervising students for participating in contest: First place in Huawei China Undergraduate's ICT Competition (Nov, 2020).

*Competitions Management.*

- Organizing on-campus competitions: Android Application Development Contest. (ByteDance, 2021)
- Organizing national-wide competitions: Huawei Autonomous Driving Contest. (Huawei, 2020 - 2021).

*Industry Collaboration.*

Participating in collaborations with top-tier enterprises all over the world: Intel, Google, Huawei, ByteDance, Tencent and etc. Helping them to build the workshop or open courses.

Cooperating in lectures, including:

- CS176 - Android Application Development. (ByteDance, 2020);
- Course Designing of Huawei IoT, HiSilicon chip-based IoT. (Huawei, 2019-2020);
- Teachers' Training of Android Application Development. (ByteDance, 2020-2021).

*Laboratories & Devices Management.*

Maintaining laboratories and devices, including:

- Laboratories: MediaLab, VR/AR Lab;
- Devices: 6-DoF Motion Platform for driving simulation, VR CAVE for teaching and research.

Nov 2017 - **Research Associate**, *Energy Research Institute @ NTU*, Singapore,

June 2018 *3D City Visualization based on LiDAR data.*

Analyzing, processing, and dealing with LiDAR data (LAZ) of roads and streets of Singapore. Visualization LiDAR data point cloud in the browser.

*GUI Designing and Implementation for an Energy Research Project.*

Organization and coordinating with different teams in the research lab to determine their requirements with the end-user and algorithm developing group. Designing the prototype and implementing web-based map page and dashboard page for visualization, communication, transmitting with background programs using .NET framework. User could operate it simply for adding buildings or devices, read the devices' data and summary charts.

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## Publications

- [1] **Weiming Zhao**, Wankun Xue. **Course Design of "The Basic MATLAB Practice" for Non-Computer-Science Students**, *Contemporary Education Research and Teaching Practice* 2021.09: 38-39
- [2] Wankun Xue, **Weiming Zhao**. **Intelligent Interaction Course Construction facing Non-Programming Students Based on Raspberry Pi**, *Contemporary Education Research and Teaching Practice* 2021.09: 255-256
- [3] Pengzhi Chu, Bo Xu, Xiongziyan Xiao, **Weiming Zhao**, Wankun Xue. **The Design of Autonomous Driving Experimental Platform Based on the Huawei Cloud Model Arts and HiLens**, *Drive System Technique* 2022.06: 38-39
- [4] **Calibration Method of Three-Dimensional Point Cloud Acquisition System**  
Chinese Patent Number: CN110196031B  
Inventors: Lin Wang, Zewei Ding, Wanxu Zhang, **Weiming Zhao**, *et al.*  
Assignee: Northwest University, China

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## Awards & Social Responsibilities

- Apr 2020 Excellent Staff in Annual Assessment, Shanghai Jiao Tong University
- Dec 2020 Grand Prize, The Second National University Blended Learning Designing and Innovation Competition
- Sept 2021 Referee, National Undergraduate Engineering Practice and Innovation Ability Competition
- Sept 2022 Deputy Secretary-General, Northwest University Shanghai Alumni Network Information Branch

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## Skills

- Languages Chinese Mandarin (Native), English (CEFR C1, IELTS 7.0)
- Programming Python, C/C++, MATLAB,  $\text{\LaTeX}$ , Java
- Others Video editing, Photography, Music, Travelling, Running, Baseball, Swimming