Weiming Zhao

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Education

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

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

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

Sept 2012 - July 2016 **BS in Computer Science and Technology**, *Northwest University*, Xi'an, China, *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, Human-Computer Interaction

Employment

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

Course Development and Lecturing.

Developing and giving lectures for bachelor students, including:
· AI001 - Artificial Intelligence Interaction Technology.
· SI1210 - Engineer Practicing: Modules of Arduino, MATLAB, NI LabVIEW and RaspberryPi;
· ME901 - Engineering Practice Exploration and Research: Module of OpenCV;
· CS1107 - VR/AR Design and Development Practice.
· CS1108 - Introduction to Data Science - The Way of Python.

Industry Collaboration.

Participating in collaborations with top-tier enterprises all over the world: BOSCH, ByteDance, Google, Huawei, Intel, Tencent and etc. Taking part in University-Industry Collaborative Education Program by Ministry of Education, China. Helping them to build the workshop or open courses.
Cooperating in lectures, including:
· Course Designing of Huawei IoT, HiSillicon chip-based IoT. (Huawei, 2019-2020)
· CS176 - *Android Application Development.* (ByteDance, 2020-2022)
· Teachers' Training of Android Application Development. (ByteDance, 2020-2021)

Student Supervision.

· Head of SJTU AIGC Class (Dec, 2023).
· 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:
· Mobile Application Development Competition. (SJTU x ByteDance, 2021, 2022)
· Engineering Scene Digitization Competition. (SJTU x Unity, 2021, 2022)
Organizing national-wide competitions:
· Huawei Autonomous Driving Contest. (SJTU x Huawei, 2020, 2021, 2022).

Laboratories & Devices Management.
Maintaining laboratories and devices, including:
· Laboratories: MediaLab, VR/AR Lab;
· Devices: 6-DoF Motion Platform for driving simulation.

Nov 2017 - June 2018 **Research Associate**, *Energy Research Institute @ NTU*, Singapore,
3D City Visualization based on LiDAR Point Cloud 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.

Publications

[1] 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

[2] **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

[3] 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

[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

Selected Honors & 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

Skills

Languages Chinese Mandarin (Native), English (CEFR C1, IELTS 7.0)

Programming Python, C/C++, MATLAB, LaTeX, Java

Others Video editing, Photography, Music, Travelling, Running, Baseball, Swimming