

Chuting YU

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EDUCATION

- The University of Queensland**, Brisbane, Australia **02/2021-11/2021**
Master of Engineering Science (GPA: 6.0/7.0)
• Core Courses: Advanced Technique for High Dimensional Data, Information Retrieval
- Ningbo Institute of Technology (NIT), Zhejiang University**, Zhejiang, China **09/2016-06/2020**
Bachelor of Science in Information and Computing Science (GPA: 90%, Ranking: 3rd /74)
• Excellent Graduate of Zhejiang Province, Ningbo Outstanding University Student of the Year 2019,
• National Scholarship of Year 2017-2018, Zhejiang Government Scholarship of Year 2016-2017,
• Winner of several First-Class Scholarships, Merit Student, Top 10 Students, etc.
- University of Plymouth Summer School**, Plymouth, UK **07/2019-08/2019**
Intercultural Communication Programme
• Core Courses: Leading Innovation, Leadership

RESEARCH EXPERIENCE

Data Science

Master's Thesis Project

- Transportation Mode Identification Based on Route* **03/2021-11/2021**
• Programming in Jupyter Notebook, using dataset about labelled transportation mode from Microsoft Research Asia Geolife project for traffic demand estimation and traffic flow calculation. Main processes including data pre-processing, trajectory segmentation and sub-trajectory classification

Computer Graphics & Multi-Param Optimization

Team Leader, Provincial Undergraduate Innovation and Entrepreneurship Training Program

- Detection System of Road Diseases Based on Multi-Param Optimization Tech* **05/2019**
• Collected and put images of diseased roads into statistic models for training to realize real-time, high-accuracy road pothole identification and marking. Obtained images through a vehicle-mounted device or grid models through a scanning device, displayed information through OpenGL, and developed YOLOv3

3D-Printing & Model Optimization

Team Leader, National and Provincial Undergraduate Innovation and Entrepreneurship Training Programs

- Design System Based on 3D-Printing for Completion of Human Skull Defects (National)* **2018-2019**
Generation System of Orthopedic Surgery Guide Plate Based on 3D-Printing (National) **2017-2018**
Positioning System of Orthopedic Surgery Based on Model Optimization (Provincial) **12/2017**
• Combined parameter optimization technology, geometric optimization model and 3D printing technology to solve various problems of traditional orthopedic surgery. As the person in charge, set up the framework of the projects, planned, scheduled and monitored the processes, compiled various materials and amended the reports

National Patent granted by the China National Intellectual Property Administration

A Multi-Feature-Based Positioning Method for the Optimal Entry Point of Pedicle Screws {CN109199604B}

- Applied as the fourth inventor for a national patent based on the research content of *Generation System of Orthopedic Surgery Guide Plate Based on 3D-Printing*, responsible for project declaration, project completion, and related document management

PUBLICATIONS

- Chuting Yu, Minglun Cai, 2021, “An Image Depth Processing Method Based on Parallel Computing and Multi-GPU”, The 2nd International Conference on Smart Electronics and Communication.

HONORS & AWARDS

Data Mining & Modeling

- 3rd Prize, “Teddy Cup” National College Students Data Mining Competition **05/2018**
- Meritorious Winner, Interdisciplinary Contest in Modeling, COMAP **02/2018**
- Honorable Mention, Interdisciplinary Contest in Modeling, COMAP **02/2017**
- 1st Prize, “Winter Cup” Mathematical Contest in Modeling, NIT, Zhejiang University **12/2016**

Innovation & Entrepreneurship

- 1st Place, China College Students Innovation and Entrepreneurship Competition (Ninghai Division) **12/2019**
- 3rd Prize, 16th “Challenge Cup” Zhejiang College Students Extracurricular Sci-tech Works Contest **05/2019**
- 3rd Prize, 11th “Challenge Cup · Xiaoshan” Zhejiang College Students Entrepreneurship Competition **05/2018**

Others

- 3rd Prize, 2019 Zhejiang Province Career Planning Competition **11/2019**
- 2nd Prize, 2nd “iWeb” Webpage Design Contest, NIT, Zhejiang University **06/2018**
- 3rd Prize, Zhejiang College Students Physics Innovation (Theory) Competition **01/2018**

EXTRACURRICULAR ACTIVITIES

Class Leader, Information and Computing Science Class 162, NIT, Zhejiang University **2017-2019**

- Organized a series of knowledge contests for the whole class to increase the enthusiasm of learning

Lab Safety Officer, Mathematical Modeling Club, NIT, Zhejiang University **2016-2018**

- Responsible for safety work of mathematical modeling training laboratory and recruitment of new members and basic skills trainings

Volunteer, Jiangshan Squad, Red Cross Society, China Ningbo Branch **2017-2018**

- Responsible for volunteer work at Blood Donation House at Ningbo Wanda Plaza (Yinzhou District) and Ningbo Yinzhou No.2 Hospital

SKILLS & RESEARCH

Skills: Python, MySQL, C/C++, Java, Android, MATLAB, Golang, Javascript, HTML

Research: Research Methodologies, Research Management