

Tianle GU



Contacts

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Languages

English: C1

French: A1.7

Chinese: Native

Knowledge

Python, FORTRAN, C++,
ANSYS Fluent, MATLAB,
Heat Transfer, Research,
Data Analysis, Renewable,
Hydraulics, Smart Grids,
Power Electronics

PROFILE

PhD candidate at Grenoble INP & Lab SIMaP. Strong interests in bubble dynamics, advanced cooling systems, renewable energy, and software development. Outstanding creative thinking and practical engineering skills. A researcher who's never afraid of getting hands dirty.

EDUCATION

- 2023–Present **PhD Candidate** **Grenoble INP, France**
Research interests: Bubble Dynamics, Electrohydrodynamic (EHD), Experimental Heat Transfer, Data Science, Automatic Control
- 2021–2022 **MSc in Fluid Mechanics and Energetics (Double Degree)** **Grenoble INP - ENSE³, France**
Main Courses: Advanced Numerical Simulations ; Micro Grids, Smart Grids and Super-grids ; Hydraulic Machines and Hydroelectricity
- 2020–2021 **MSc in Energy Engineering and Management (Double Degree)** **Técnic Lisboa, Portugal**
Average Grade: 17/20. Merit Diploma
Main Courses: Offshore Wind Energy; Power Electronics for Renewable Energy; Data Analytics for Smart Grids; Renewable Sources and Distributed Power Generation
- 2012–2016 **Bachelor of Engineering** **Xi'an Jiaotong University, China**
Top 30%, Siyuan Scholarship recipient
Main Courses: Program Design for Engineering Analysis, Atomic Physics, Fluid Mechanics, Heat Transfer, Thermohydraulics Analysis of Nuclear Reactors

PROJECTS

- Sep., 2021 **'Siemens Energy New Energy Challenge' Winner**
Blockchain for a transparent industry
- Aug., 2020 **'Oceans of Energy Data' Final Competition Winner**
App based on smart meter data to help users optimize the charging plan for EV

EXPERIENCE

- 2023–Present **Grenoble INP** **Grenoble**
Teacher, Tutor
Gave tutorials and laboratory lessons in **Heat and Mass Transfer** and **Thermodynamics**.
- Mar.–Aug, 2022 **SIMaP/ MERCE** **Grenoble, France**
Intern, Mechanical Engineer
The project was proposed by **Mitsubishi Electric R&D Centre Europe (MERCE)** and performed at **Le laboratoire Science et Ingénierie des Matériaux et Procédés (SIMaP)**. A review of the state-of-the-art of calorimetric measurement from a power electronics point of view was made. The design and fabrication of a calorimeter were successfully accomplished for measuring the efficiency of highly integrated power modules. Experimental validation proved the extremely high accuracy of the apparatus.
- 2015–2019 **Tomorrow Advancing Life Education Group** **Xi'an, China**
Team Leader and Elite Teacher
Selected and trained high school mathematics teachers. Created new curriculum products and admission content. Examined and improved course quality based on retention rate analysis. Taught higher mathematics.
- Jun.–Aug., 2015 **Lianyungang Tianwan Nuclear Power Station** **Lianyungang, China**
Intern
Visited and learned about the basic components of a nuclear power plant. Received safety training and operational briefings. Introduction to the development of frontier power plants.