

JIE HUANG

PERSONAL DATA

GENDER: Male
 NATIONALITY: Chinese
 DATE OF BIRTH: 1st February 1993
 ADDRESS: Y430c, Department of Applied Physics, Aalto University, Finland
 EMAIL: jie.huang@aalto.fi
 WEBSITE: <https://way2ml.github.io>

EDUCATION

05/2023–now	Doctoral Researcher in Applied Physics Aalto University, Espoo, Finland, Advisor: Prof. Adam S. Foster
09/2018–06/2021	M.S. in Condensed Matter Physics Wenzhou University, Wenzhou, China, Supervisor: Prof. Shibei Li Thesis: “ Applications of machine learning in hydrogen-bond dynamics in bulk water and polymer chains’ structure factor ” GPA: 3.84/4.0
09/2012–06/2016	B.S. in Electronic Information Engineering , China West Normal University, Nanchong, China Thesis: “ A CCD translation device based on Raspberry Pi ” GPA: 3.22/4.0

SCIENTIFIC PUBLICATIONS

1. **Jie Huang**, Gang Huang*, and Shibei Li*, [A machine learning model to classify dynamic processes in liquid water](#), *ChemPhysChem* 23, DOI: 10.1002/cphc.202100599, 2022, **Cover Article**
2. **Jie Huang**, Shibei Li*, Xinghua Zhang*, and Gang Huang, [Neural network model for structure factor of polymer systems](#), *The Journal of Chemical Physics* 153, DOI: 10.1063/5.0022464, 2020

WORK EXPERIENCE

07/2022 - 04/2023	Research Assistant, Institute of Applied Physics and Materials Engineering, University of Macau , Macau, China. Supervisor: Prof. Yongqing Cai 1. Density Functional Theory Study of Perovskite Nanoclusters in Aqueous Environment
09/2016 - 04/2018	Software Engineer , FalconPro Technology Co., Ltd, Shanghai, China 1. Image processing & Barcode decoding 2. Embedded systems programming

AWARDS/HONOR

2021	Outstanding Graduate of Wenzhou University (one of 65 students)
2021	Award for Excellent Scientific and Technological Innovation (one of 1176 students)
2020	National Scholarship , Ministry of Education of China (two of 65 students)
2020	First-grade Scholarship for scientific research, Wenzhou University (five of 65 students)
2015	National Undergraduate Electronic Design Contest (TI Cup) Second Prize
2015	National Professional Software Engineering Design Contest (Bule Bridge Cup) Second Prize

CERTIFICATES

- 2018 | MOOC certificate from **Peking University**: [Artificial Intelligence Practice](#)
- 2016 | edX certificate from the **University of Texas at Austin**: [Embedded Systems](#)
- 2015 | **National Electronics Professionals**: [Senior Development Engineer of MCU Application](#)
- 2014 | **National Computer Rank Examination Level 3**: [Embedded System Development](#)

SKILLS

Python, Tensorflow, C, LAMMPS, CP2K, Linux, Embedded Systems Programming, Git

LANGUAGES

Chinese (native), English (proficient), Japanese (basic)

ACTIVITIES

- 2021/11 | Teaching "[Introduction to Deep Learning](#)" for postgraduates in Physics , Wenzhou University.
- 2020/06 | Creating the [Soft Matter Online Discussion Group](#), Wenzhou University
- 09/2019 - 11/2019 | **Teaching assistant** for "C programming language", **Beihang University**
- 05/2018 - 11/2019 | **System manager** of the Linux cluster, **Beihang University**

HOBBY PROJECTS

- 2022 | [Guitar Simulations From Wave Equations: Music Demo](#)
- 2022 | [Huanbu](#): A cross-platform and full functional metronome app based on Python
- 2022 | [Generate Music From Scratch](#) Using Python
- 2020 | [Adversarial Inverse Reinforcement Learning Implementation](#) for Mountain Car
- 2019 | [Steady Hand Game Device](#) Based on **Raspberry Pi**
- 2016 | [Handheld Game Console](#) Based on **Texas Instruments TM4C123G**

Last updated: August 14, 2023