

JIE HUANG

PERSONAL DATA

GENDER: Male
 NATIONALITY: Chinese
 DATE OF BIRTH: 1st February 1993
 ADDRESS: Y430c, Department of Applied Physics, Aalto University, Finland
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 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
05/2018 - 12/2019	Visiting Student, Center of Soft Matter Physics and its Applications, Beihang University , Beijing, China. Supervisor: Prof. Ying Jiang 1. Teaching assistant for the undergraduate course “C Programming Language” 2. System manager of the Linux cluster at Center of Soft Matter Physics, Collaborator: Dr. Tao Huang 3. Solving diffusion equations and finding critical points of polymer systems using unsupervised learning
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

- 2021 | **IELTS Academic: Score 6.0**
- 2018 | **College English Test Band 6: Score 513**
- 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: May 7, 2023