Jie Huang

Personal Data

Gender:	Male
Nationality:	Chinese
Date of Birth:	1st February 1993
Address:	Wenzhou University, Zhejiang, China 325035
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Education

09/2018–06/2021 — M.S. in **Condensed Matter Physics & Machine Learning**
Wenzhou University, Wenzhou, China, Supervisor: Prof. Dr. Shiben Li
Thesis: "Applications of machine learning in hydrogen-bond dynamics in bulk water and polymer chains' structure factor"

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"

Scientific Publications

1. **Jie Huang**, Gang Huang*, and Shiben Li*, A machine learning model to classify dynamic processes in liquid water, **ChemPhysChem**, DOI: 10.1002/cphc.202100599, **2021** (arXiv:2104.07965)

2. **Jie Huang**, Shiben Li*, Xinghua Zhang*, and Gang Huang, Neural network model for structure factor of polymer systems, **The Journal of Chemical Physics** 153, 124902, **2020** (arXiv:2104.09853)

Invited Talk

1. Academic research experience sharing for postgraduates on National Science and Technology Talents Day, School of Mathematics and Physics, Wenzhou University, 2021

Work Experience

05/2018–12/2019 — Visiting Student, Center of Soft Matter Physics and its Applications, **Beihang University**, Beijing, China. Supervisor: Prof. Dr. 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**
4. **Corneal image classification** and keratoconus detection using **convolutional neural networks**, Collaborator: Prof. Dr. Meixiao Shen

09/2016–04/2018 — **Software Engineer**, Falconpro, Inc, Shanghai, China
Image processing & Barcode decoding

Awards

2021 — **Outstanding Graduate** in Wenzhou University (1/65)
Award for **excellent scientific and technological innovation** (1/1176), Wenzhou University

2020 — **National scholarship** for postgraduates (2/65), Wenzhou University
First-grade scholarship for scientific research (2/22), Wenzhou University

2018 — Award for the best team member, Falconpro

2017 — Award for the most creative employee, Falconpro

2015 — **Second prize** in the **national undergraduate electronic design contest**
China West Normal University

CERTIFICATES

2018	MOOC certificate from Peking University, **Artificial intelligence practice**
2016	edX certificate from The University of Texas at Austin, **Embedded Systems**
2015	Certificate of **senior development engineer of MCU application**
2014	MOOC certificate from Harbin Institute of Technology, **Python programming language**

SKILLS

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

ACTIVITIES

2021/11	Teaching "Introduction to Deep Learning" for postgraduates in Physics at Wenzhou University.
2020/06	Creator of the soft matter online discussion group at Wenzhou University
09/2019 - 11/2019	**Teaching assistant** for "C programming language," Beihang University
05/2018 - 11/2019	**System manager** of the Linux cluster at Beihang University
02/2018 - now	Owner of the **online machine learning website**: www.way2ml.com

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