Jie Huang

Personal Data

Gender:	Male
Nationality:	Chinese
Date of Birth:	1st February 1993
Address:	Chashan, Ouhai, Zhejiang, China 325035
email:	jiehuang@stu.wzu.edu.cn
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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" **GPA: 3.84/4.0**
05/2018–12/2019	Visiting student, Center of Soft Matter Physics and its Applications **Beihang University**, Beijing, China. Supervisor: Prof. Dr. Ying Jiang
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. Gang Huang*, **Jie Huang**, Thickness of the air-water interface from first-principles simulation-based hydrogen bond dynamics, arXiv:2204.13941, **2022**

2. **Jie Huang**, Gang Huang*, and Shiben Li*, A machine learning model to classify dynamic processes in liquid water, **ChemPhysChem** 23, DOI: 10.1002/cphc.202100599, **2022**, Cover Article

3. **Jie Huang**, Shiben 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**

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 (CNN)**, Collaborator: Prof. Dr. Meixiao Shen
09/2016–04/2018	**Software Engineer**, FalconPro Technology Co., Ltd, Shanghai, China 1. **Image processing & Barcode decoding** 2. **Embedded systems** programming

Awards/Honor

2022	**Cover Article**; **ChemPhysChem**, Volume 23, Issue 1
2021	**Outstanding Graduate** of Wenzhou University (only one of 65 students)
2021	Award for **Excellent Scientific and Technological Innovation** (only one of 1176 students)
2020	**National Scholarship**, Ministry of Education of China (only two of 65 students)
2020	**First-grade Scholarship** for scientific research, Wenzhou University (only five of 65 students)
2018	Award for **The Best Team Member**, Falconpro
2017	Award for **The Most Creative Employee**, Falconpro
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: Overall Band Score 6.0**
2018	**College English Test Band 6 (CET-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	MOOC certificate from **Harbin Institute of Technology:** Python Programming Language
2014	**National Computer Rank Examination Level 3: Embedded System Development**
2014	**National Computer Rank Examination Level 2: The C Programming Language**

Skills

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

Activities

2021/11	Teaching "Introduction to Deep Learning" for postgraduates in Physics , Wenzhou University.
2020/06	Creator of 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**
02/2018 - now	Owner of the **Online Machine Learning Website**: www.way2ml.com

Hobby Projects

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**

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