

JIE HUANG

PERSONAL DATA

GENDER: Male
 NATIONALITY: Chinese
 DATE OF BIRTH: 1st February 1993
 ADDRESS: N21-1012, University of Macau, Avenida da Universidade, Taipa, Macau, China
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EDUCATION

09/2018–06/2021	M.S. in Condensed Matter Physics & Machine Learning Wenzhou University, Wenzhou, China, Supervisor: Prof. Dr. Shibei 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 Shibei 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**, 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

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

07/2022 - now	Research Assistant, Institute of Applied Physics and Materials Engineering, University of Macau , Macau, China. Supervisor: Prof. Dr. Yongqing Cai
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**

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**

Last updated: September 5, 2022