

JIE HUANG

PERSONAL DATA

GENDER: Male
 NATIONALITY: Chinese
 DATE OF BIRTH: 1st February 1993
 ADDRESS: Chashan, Ouhai, 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. 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. **Jie Huang**, Gang Huang*, and Shibei Li*, [A machine learning model to classify dynamic processes in liquid water](#), *ChemPhysChem*, DOI: 10.1002/cphc.202100599, 2021, **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

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

- 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** for postgraduates, 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

- 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: December 16, 2021