

JIE HUANG

PERSONAL DATA

GENDER: Male
 NATIONALITY: Chinese
 DATE OF BIRTH: 1st February 1993
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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](#)”

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 Shibei 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, Shibei 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 on embedded systems

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, Ministry of Education of China
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](#)
 National Computer Rank Examination Level 3: [Embedded System Development](#)
 National Computer Rank Examination Level 2: [The C 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

Last updated: November 26, 2021