

# 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. 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, [arXiv:2104.07965](#), 2021
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

## 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
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

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- 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

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

Last updated: July 30, 2021