

# JIE HUANG

## PERSONAL DATA

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GENDER: Male  
 NATIONALITY: Chinese  
 DATE OF BIRTH: 1st February 1993  
 ADDRESS: Wenzhou University, Zhejiang, China 325035  
 EMAIL: [jiehuang@stu.wzu.edu.cn](mailto:jiehuang@stu.wzu.edu.cn)  
 WEBSITE: <https://www.way2ml.com>

## EDUCATION

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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](#)”

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

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1. **Jie Huang**, Gang Huang\*, and Shiben 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**, Shiben Li\*, Xinghua Zhang\*, and Gang Huang, [Neural network model for structure factor of polymer systems](#), *The Journal of Chemical Physics* 153, 124902, DOI:10.1063/5.0022464, 2020 ([arXiv:2104.09853](#))

## INVITED TALK

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1. Academic research experience sharing for postgraduates on National Science and Technology Talents Day, School of Mathematics and Physics, Wenzhou University, 2021

## WORK EXPERIENCE

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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

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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

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- 2021 | IELTS ACADEMIC: [Overall Band Score 6.0](#)
- 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

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Git, Linux, [Python](#), C, Shell, [Tensorflow](#), Embedded Systems Programming, LAMMPS, CP2K

## ACTIVITIES

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- 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](http://www.way2ml.com)

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