

# JIE HUANG

## PERSONAL DATA

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GENDER: Male  
 NATIONALITY: Chinese  
 DATE OF BIRTH: 1st February 1993  
 ADDRESS: N21-1012, University of Macau, Avenida da Universidade, Taipa, Macau, China  
 EMAIL: [jiehuang@um.edu.mo](mailto:jiehuang@um.edu.mo)

## EDUCATION

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09/2018–06/2021	<b>M.S. in Condensed Matter Physics</b> Wenzhou University, Wenzhou, China, Supervisor: Prof. Shibei Li Thesis: “ <a href="#">Applications of machine learning in hydrogen-bond dynamics in bulk water and polymer chains’ structure factor</a> ” <b>GPA: 3.84/4.0</b>
09/2012–06/2016	<b>B.S. in Electronic Information Engineering,</b> China West Normal University, Nanchong, China Thesis: “ <a href="#">A CCD translation device based on Raspberry Pi</a> ” <b>GPA: 3.22/4.0</b>

## SCIENTIFIC PUBLICATIONS

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1. **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**
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

## WORK EXPERIENCE

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07/2022 - now	Research Assistant, Institute of Applied Physics and Materials Engineering, <b>University of Macau</b> , Macau, China. Supervisor: <a href="#">Prof. Yongqing Cai</a> 1. Dynamic properties of the air-water interface
05/2018 - 12/2019	Visiting Student, Center of Soft Matter Physics and its Applications, <b>Beihang University</b> , Beijing, China. Supervisor: Prof. Ying Jiang 1. <b>Teaching assistant</b> for the undergraduate course “C Programming Language” 2. <b>System manager</b> of the Linux cluster at Center of Soft Matter Physics, Collaborator: <a href="#">Dr. Tao Huang</a> 3. <b>Solving diffusion equations and finding critical points</b> of polymer systems using <b>unsupervised learning</b>
09/2016 - 04/2018	<b>Software Engineer</b> , FalconPro Technology Co., Ltd, Shanghai, China 1. <b>Image processing &amp; Barcode decoding</b> 2. <b>Embedded systems programming</b>

## AWARDS/HONOR

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- 2021 | **Outstanding Graduate** of Wenzhou University (one of 65 students)
- 2021 | Award for **Excellent Scientific and Technological Innovation** (one of 1176 students)
- 2020 | **National Scholarship**, Ministry of Education of China (two of 65 students)
- 2020 | **First-grade Scholarship** for scientific research, Wenzhou University (five of 65 students)
- 2015 | **National Undergraduate Electronic Design Contest (TI Cup)** **Second Prize**
- 2015 | **National Professional Software Engineering Design Contest (Bule Bridge Cup)** **Second Prize**

## CERTIFICATES

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- 2021 | **IELTS Academic: Score 6.0**
- 2018 | **College English Test Band 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 | **National Computer Rank Examination Level 3: Embedded System Development**

## SKILLS

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

## LANGUAGES

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Chinese (native), English (proficient), Japanese (basic)

## ACTIVITIES

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- 2021/11 | Teaching "**Introduction to Deep Learning**" for postgraduates in Physics , Wenzhou University.
- 2020/06 | Creating 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

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- 2022 | **Generate Music From Scratch** Using Python
- 2020 | **Adversarial Inverse Reinforcement Learning Implementation** for Mountain Car
- 2016 | **Handheld Game Console** Based on **Texas Instruments TM4C123G**

Last updated: September 25, 2022