JIAXU (JACOB) ZHANG

Sun Yat-sen University ◇ Shenzhen, GZ 518107

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EDUCATION

- **Sun Yat-sen University – Shenzhen, GZ 985 QS 311th**   *Sep 2023 – Jun 2026*
  Major: Information and Communication Engineering
  GPA: 3.42/4.00

- **China Academy of Railway Sciences – Chaoyang, BJ**   *Jan 2024 – Dec 2024*
  Visiting Student

- **Northeast Forestry University – Harbin, HLJ 211**   *Sep 2019 – Jun 2023*
  Major: Information and Computational Sciences (Computational Mathematics)
  GPA: 4.26/5.00   Avg score: 94.57/100.00   Ranking: 3rd/58

HONORS AND AWARDS

- **China National Scholarship for Postgraduates (SYSU)**   *Jan 2025*
- **China National Scholarship for Undergraduates (NEFU)**   *Jan 2022*
- **Outstanding Graduates (NEFU)**   *Jun 2023*
- **National Second Class Award – CUMCM (NEFU)**   *Oct 2022*
- **Finalist Award – MCM/ICM (NEFU)**   *Apr 2022*

SELECTED PUBLICATIONS (* INDICATES STUDENT AUTHOR)

- **Rail Surface Defect Detection Through Bimodal RSDINet and Three-Branched Evidential Fusion.**   *Mar 2023*
  Jiaxu Zhang*, Jiong Zhang*, Jiejun Chen*, Shengchun Wang, Liang Wang.
  IEEE Transactions on Instrumentation and Measurement (2023) 72.
  https://doi.org/10.1109/TIM.2023.3253895

- **Deep Evidential Remote Sensing Landslide Image Classification With a New Divergence, Multiscale Saliency and an Improved Three-Branched Fusion.** *Jan 2024*
  Jiaxu Zhang*, Qi Cui*, Xiaojian Ma.
  IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (2024) 17.
  https://doi.org/10.1109/JSTARS.2024.3354455

- **Robust Rail-Track Section Identification With Multiple Structured Light Sensors and Kernel-Based Belief Sensor-Credibility Evaluation.**   *Mar 2024*
  Jiaxu Zhang*, Shengchun Wang, Kunzhen Liu*, Liang Wang.
  IEEE Sensors Journal (2024) 24 (8).
  https://doi.org/10.1109/JSEN.2024.3370588

- **A New "E-E" Paradigm to Construct Multi-BPAs Based Belief Jensen Divergence in the Evidence Theory.**   *Jun 2024*
  Jiaxu Zhang*, Shengchun Wang, Juan Tan, Liang Wang.

Information Sciences (2024) 680.

https://doi.org/10.1016/j.ins.2024.121153

- **A Deep Evidence Fusion Framework for Apple Leaf Disease Classification.** *Oct 2024*
Hang Wang*, <u>Jiaxu Zhang</u>*, Zhu Yin*, Liucheng Huang*, Jie Wang*, Xiaojian Ma.
Engineering Applications of Artificial Intelligence (2024) 136.
https://doi.org/10.1016/j.engappai.2024.109011

WORKING PAPERS AND PREPRENTS (* INDICATES STUDENT AUTHOR)

- **Train-mounted Railway Perimeter Intrusion Detection with Tri-modality Sensor and Evidential Decision Fusion.** *Under Review*
<u>Jiaxu Zhang</u>*, Peng Dai, Shengchun Wang, Liang Wang.

- **A New Belief Dissimilarity Measure Based on Riemannian Manifold with Applications in Multi-source Information Fusion.** *Under Review*
<u>Jiaxu Zhang</u>*, Shengchun Wang, Peng Dai, Liang Wang.

INVITED TALKS

- **7th Global Intelligent Industry Conference** *Apr 2024*
Shenzhen, GZ, China

INDUSTRY EXPERIENCE

- **AI Algorithm Acceleration Intern** *May 2026 – Aug 2026*
Hikvision, Hangzhou, ZJ, China

- **Research Assistant** *May 2024 – Aug 2024*
Hong Kong Polytechnic University-Shenzhen Base, Shenzhen, GZ, China

- **Industrial Machine Vision Intern** *Sept 2023 – Nov 2024*
China Academy of Railway Sciences Co., Ltd., Chaoyang, BJ, China

TEACHING EXPEIENCE

Teaching Assistant

- School of Electronics and Communication Engineering, Sun Yat-sen University
  - Spring 2024: *Intelligent Photoelectric Perception & Decision-making*

LANGUAGE & SKILLS

Language

- English: *IELTS Academic 6.5 (Reading & Writing 7.0, Listening 6.5, Speaking 5.5)*
- Mandarin: *Mother Language*

Coding Ability

- C++: *Skilled in Software Development*
- Python: *Skilled in Pytorch & ONNXRuntime*
- Matlab: *Skilled*
- LaTex: *Skilled*