Zhenghao Zhou

PERSONAL INFORMATION

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EDUCATION EXPERIENCES

M.E.E. Electrical Engineering

2024-present

Shanghai University, Shanghai, China

College of Smart Energy

GPA: 3.89/4.0

Advisor: Yiyan Li, Assistant Professor

B.E. Electrical Engineering

2020-2024

Hunan University, Changsha, China GPA: 3.83/4.0 (Ranking: 3/289)

RESEARCH INTEREST

My research focuses on the application of machine learning and big data analytics in power distribution systems, including:

- **Situational awareness**: using deep-learning based methods to better understand the distribution system operation condition. For example, using infoGAN model to extract interpretable physical features and enabling controlled data generation
- Physics-Informed Modeling: using machine-learning based methods to model power systems
 with interpretability. For example, using Kolmogorov-Arnold Network to implement whitebox modeling of electrical energy systems.

PUBLICATIONS

- [1] **Zhenghao Zhou**, Yiyan Li*, Runlong Liu, Zheng Yan, Mo-Yuen Chow. Unsupervised and controllable synthesizing for imbalanced energy dataset based on AC-InfoGAN[J]. Applied Energy, 2025, 393: 126107.
- [2] Zhenghao Zhou, Yiyan Li*, Zelin Guo, Zheng Yan, Mo-Yuen Chow. A White-Box Deep-Learning Method for Electrical Energy System Modeling Based on Kolmogorov-Arnold Network. (Available at: arXiv: https://arxiv.org/abs/2407.13691, Submitted to IEEE Transactions on Industrial Informatics)

GRANDS AND SELECTED AWARDS

Excellent Undergraduate Student Award Hunan Provincial Department of Education	2024
Excellent Undergraduate Student Award Hunan University	2024
Hugo Shong Scholarship (The highest social donation scholarship of Hunan University Hunan University	y) 2024
China National Scholarship Ministry of Education of China	2023
National Second prize of China University Intelligent Robot Creativity Competition Chinese Association for Artificial Intelligence	2023
National First prize of China Robotics and Artificial Intelligence Competition Chinese Association for Artificial Intelligence	2023
National First prize of China Robot Competition Chinese Association of Automation	2022
TBEA Scholarship Hunan University	2022
Honorable Mention of MCM Hunan University	2022
INTERNSHIP	
Shenzhen InnoX Academy Electronics and Algorithms engineer	2024
OTHERS	

Software: PyCharm; Altium Designer; SolidWorks; LaTeX; Keil and so on.