

EDUCATION	College of Engineering, Peking University <i>Ph.D. in Industrial and Systems Engineering</i> • Advisor: Prof. Jie Song, Prof. Jianxiao Wang • Research area: Data-centric AI, Energy System, Data-driven Optimazation	Beijing, China 2022 - 2027 (<i>expected</i>)
	College of Engineering, Peking University <i>B.E. in Theoretical and Applied Mechanics</i>	Beijing, China 2018 - 2022
	National School of Development, Peking University <i>B.E. in Economics (Dual Degree)</i>	Beijing, China 2019 - 2022
RESEARCH STATEMENT	My research centers on advancing the interpretability of data science within complex systems. I am particularly interested in leveraging data-driven methodologies to implement end-to-end optimization, with a recent focus on enhancing the reliability and efficiency of energy systems under uncertainty through data-centric decision-making.	
PUBLICATIONS	<ol style="list-style-type: none">Yanzhi Wang, Jianxiao Wang, Feng Gao, Jie Song. Unveiling value patterns via deep reinforcement learning in heterogeneous data analytics. <i>Patterns</i>, 5(5), 2024. (Cover Article) DOI: 10.1016/j.patter.2024.100965Yanzhi Wang, Jie Song. Dissecting Renewable Uncertainty via Deconstructive Analysis-Based Data Valuation. <i>IEEE Transactions on Industry Application</i>, 61(1), pp. 1626-1635, 2024. DOI: 10.1109/TIA.2024.3384130Yanzhi Wang, Jianxiao Wang, Haoran Zhang, Jie Song. Bridging Prediction and Decision: Advances and Challenges in Data-Driven Optimization. <i>Nexus</i>, 2025. DOI: 10.1016/j.nexs.2025.100057Yanzhi Wang, Jianxiao Wang, Jie Song. Strategic Data Purification for Improved Power Dispatch Against Uncertainty. <i>IEEE Transactions on Industrial Informatics</i>, 2025. DOI: 10.1109/TII.2025.3545092Yanzhi Wang, Jianxiao Wang, Jie Song. Data-centric Optimization: An End-to-End Strategy for Power Systems. <i>Engineering</i>, 2025. (Under Review)Yihang Jin, Yanzhi Wang, Jianxiao Wang, et al. Condensed Data Acquisition for Non-Intrusive Load Monitoring via Household Selection. <i>IEEE Transactions on Industrial Informatics</i>, 2025. (Under Review)Yanzhi Wang, Jianxiao Wang, Jie Song. Feature Valuation Toward Improved State Estimation for Automotive Lithium-ion Battery. <i>2024 IEEE Industry Applications Society Annual Meeting (IAS)</i>, 2024. (Accepted)Yanzhi Wang, Yue Zhao, Jie Song, Hongju Liu. What drives patients to choose a physician online? A study based on tree models and SHAP values. <i>2022 IEEE 18th International Conference on Automation Science and Engineering (CASE)</i>, 2022. DOI: 10.1109/CASE49997.2022.9926467	
AWARDS & HONORS	Wei-Ming PhD Scholars, Peking University <i>One of 13 recipients selected university-wide.</i>	2024.06
	Academic Rising Star, College of Engineering, Peking University <i>One of 5 recipients selected college-wide.</i>	2024.05

SKILLS

Programming: Python, MATLAB, R.

Academic Training: *Advanced Theory of Probability, Advanced Operations Research, Optimization Methods in Machine Learning, Reinforcement Learning, Distributed Optimization, Design and Analysis of Algorithms, Carbon Neutrality and Energy Internet, etc.*