Honglin Wen

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Research interests

machine learning applications in power system, time series forecasting, uncertainty quantification, and decision making under uncertainty

Education

Shanghai Jiao Tong University   Shanghai, China
PhD in Electrical Engineering   Sept 2017 – Present
Mentor: Professor Zhijian Jin.

Technical University of Denmark   Lyngby, Denmark
Guest PhD in Operational Research   Apr 2021 – Present
Mentor: Professor Pierre Pinson.

Shanghai Jiao Tong University   Shanghai, China
BA in Electrical Engineering   Sept 2013 – Jun 2017
Mentor: Professor Zhijian Jin. *top* 5%

Honors and
scholarships

State Scholarship Fund (CSC)	2020
Rongchang Leadership Scholarship (SJTU)	2017-2019
Outstanding Undergraduates of Shanghai	2017

Recent Publications

Optimal Adaptive Prediction Intervals for Electricity Load Forecasting in Distribution Systems via Reinforcement Learning
Yufan Zhang, Honglin Wen, Qiuwei Wu, and Qian Ai.
submitted to IEEE Transactions on Smart Grid, in review.

Continuous and Distribution-free Probabilistic Wind Power Forecasting
Honglin Wen, Pierre Pinson, Jinghuan Ma, Jie Gu, and Zhijian Jin.
submitted to IEEE Transactions on Sustainable Energy, in revision.

Sparse Variational Gaussian Process based Day-ahead Probabilistic Wind Power Forecasting
Honglin Wen, Jinghuan Ma, Jie Gu, Lyuzerui Yuan, and Zhijian Jin.
IEEE Transactions on Sustainable Energy, 2022.

Skeleton Sequence and RGB Frame Based Multi-Modality Feature Fusion Network for Action Recognition
Xiaoguang Zhu, Ye Zhu, Haoyu Wang, Honglin Wen, Yan Yan, and Peilin Liu.

ACM Transactions on Multimedia Computing Communications and Applications, 2021.

Probabilistic Load Forecasting via Neural Basis Expansion Model Based Prediction Intervals
Honglin Wen, Jie Gu, Jinghuan Ma, Lyuzerui Yuan, and Zhijian Jin
IEEE Transactions on Smart Grid, 2021.

Research experience	**State Energy and Smart Grid Research Center**

Mentor: Professor Zhijian Jin   Sept 2017 – Present
Research on power system operation based on machine learning, with special focus on state estimation, forecasting, and distribution system operation.

Operation Research Group, Management Science Division
Mentor: Professor Pierre Pinson   Apr 2021 – Present
Renewable energy forecasting with special focus on probabilistic forecasting methods, missing value problems, and online learning.

Talks and tutorials	**Probabilistic Wind Power Forecasting via Bayesian Deep Learning Based Prediction Intervals** Jul 2019

IEEE 17th International Conference on Industrial Informatics

Skills	**Programming**

Proficient in: Python, Pytorch.
Familiar with: Matlab, Julia.

Service and outreach	**Reviewer for IEEE Transactions on Smart Grid** Jul 2021 – Present
	Member of working group for IEA wind task 36 Feb 2022 – Present

Professional memberships	**IEEE student member.** Jun 2019 – Present
	ACM student member. Jun 2020 – Present