

# Zhisen Jiang

Master of Engineering in Electrical Engineering

+86-13914751517

✉ jiangzhisen1999@163.com

## EDUCATION

---

### •Tsinghua University

2022 - 2025

*Master of Engineering in Electrical Engineering*

GPA: 4.0/4.0

- Supervised by: Prof. Ye Guo
- Rank 1/1261 during the master's program

### •North China Electric Power University

2018 - 2022

*Bachelor of Engineering in Electrical Engineering and its Automation*

GPA: 94.48/100

- Supervised by: Prof. Jianxiao Wang
- Rank 1/46 in undergraduate studies

## VISITING EXPERIENCE

---

### •Swiss Federal Institute of Technology (ETH) Zürich

Mar 2024 - Aug 2024

*Visiting Student of Automatic Control Laboratory (IfA)*

- Supervised by: Dr. Saverio Bolognani, Prof. Giuseppe Belgioioso
- 2024 NCCR Automation Fellowship winner
- Worked in Prof. Florian Dörfler's group at Automatic Control Laboratory (IfA) to research incentive-based DSO participation in grid voltage support.

## PUBLICATIONS

---

### Published Journal Articles:

- **Zhisen Jiang**, and Ye Guo, "Bargaining-based Approach for Dynamic Operating Envelope Allocation in Distribution Networks," **IEEE Transactions on Smart Grid**, **accepted**, 2025.
- **Zhisen Jiang**, Ye Guo, and Jianxiao Wang, "Dynamic Operating Envelopes Embedded Peer-to-Peer-to-Grid Energy Trading," **Applied Energy**, **published**, 2025.

### Peer-Reviewed Conference Papers:

- **Zhisen Jiang**, Ye Guo, and Hongbin Sun, "Bargaining-based Allocation of Dynamic Operating Envelopes in Distribution Networks," 2024 IEEE Power & Energy Society General Meeting (**PESGM**), IEEE, 2024.
- **Zhisen Jiang**, Ye Guo, and Jianxiao Wang, "A Robust Optimization Method for Dynamic Operating Envelope Coordination in Distribution Networks," 8th IEEE Conference on Energy Internet and Energy System Integration (**EI2**), IEEE, 2024.
- **Zhisen Jiang**, Jianxiao Wang, Tiance Zhang, Gengyin Li, and Ming Zhou, "Deep Learning-Based Hybrid Model for Forecasting Locational Marginal Prices," 2020 IEEE/IAS Industrial and Commercial Power System Asia (**I&CPS Asia**), IEEE, 2020.

## PROFESSIONAL ENGAGEMENT

---

- Reviewer of CSEE Journal of Power & Energy Systems, IEEE Conference on Decision and Control (CDC).

## SUMMARY OF QUALIFICATIONS

---

- Programming experience with Python (Gurobipy, PyPSA, Numpy, Scipy, Pandas, Sklearn, Pytorch, Matplotlib, etc), Matlab (Yalmip) and C proven in coursework and research.
- Strong understanding of decision-making and optimization mathematics.
- Solid foundation in modeling power systems, especially for distribution networks, using variants of DistFlow.
- Advanced knowledge of LaTeX, Microsoft Office Suite.
- Fluent in English (IELTS: 7.0) and Mandarin.

## RESEARCH INTERESTS

---

- Design and analysis of electricity market mechanisms, especially with distributed energy resources.
- Application of control theory into power systems.
- Implementation of practical network safeguard like Dynamic Operating Envelopes.

## AWARDS

---

### Undergraduate Career:

- 2x School Technology Pacesetter
- 1x First Prize of National English Competition for College Students

### Graduate Career:

- 1x Beijing Outstanding Graduate Award
- 1x Tsinghua University Comprehensive Excellence Scholarship (First Class)