

Liya Ma 馬麗雅

PhD Student

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Education

- **PhD** in Electrical and Computer Engineering
University of Macau, Macau 2022.08- Present
- **Master** in Electrical Engineering
North China Electric Power University 2019.09-2022.06
GPA 92.35/100, Outstanding Graduate (Top 15%)
- **Bachelor** in Electrical Engineering and its Automation
North China Electric Power University 2015.09-2019.06
GPA 90.55/100 (Top 3%)

Publications

- **Ma L**, Liu N, Sun H, Li C, Liu W. Bi-level Frequency Regulation Resource Trading for Electricity Consumers: A Data-driven Contract Approach. *International Journal of Electrical Power & Energy Systems*, 2022, 135: 107543.
- **Ma L**, Liu W, Sun H, Liu N, Shi J. Contract Theory Based Transaction Strategy for Prosumers to Participate in the Frequency Modulation Ancillary Service Market. *Power System Technology*, 2021, 45(4): 1347-1355.
- Shi J, **Ma L**, Li C, Liu N, Zhang J. Daily Peak Load Forecasting Based on Sequential-parallel Ensemble Learning. *Proceedings of the CSEE*, 2020, 40(14): 4463-4472.
- Li C, Shi J, Liu N, **Ma L**, Li C. Analysis Model of Power User Group Evolution Based on Complex Network. *Proceedings of the CSEE*. 2022. 1 (Early access).

Projects

- The Key Technologies Research for the Intelligent Joint Centralized Control and Operation of Grid-friendly Wind/PV/Storage Hybrid Power Station Group
Supported by China Three Gorges Corporation 2021.04-2022.06
- Game-based Interactive Energy Optimization Method for Photovoltaic Prosumer Cluster
Supported by National Natural Science Foundation of China 2019.09-2022.05
- Research on the Applicability and Business Model of Integrated Energy Technology in Park Based on Dynamic Portrait Analysis
Supported by State Grid Corporation of China 2019.09-2021.11

Selected Awards & Honors

- Interdisciplinary Contest in Modeling Honorable Mention, MCM/ICM, the Consortium for Mathematics and Its Applications (COMAP)
- National Third Prize in China, Enactus Competition, Enactus Worldwide
- Second Prize in Beijing Division, Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM), China Society for Industrial and Applied Mathematics (CSIAM) and Beijing Municipal Education Commission