Ning Qi

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Ning Qi is an Electrical Engineering researcher dedicated to advancing reliable and economic decarbonization in the energy sector. His research interests include **behavior modeling, data-driven optimization under uncertainty, and market design** for generalized energy storage resources (e.g., battery, hydropower, hydrogen, electric vehicle, thermostatically controlled load) in both decentralized and centralized power grids.

Positions

Mar. 2024 — Present **Postdoctoral Research Scientist**, Department of Earth and Environmental Engineering, **Columbia University** (Advisor: Prof. Bolun Xu)

Jul. 2023 — Feb. 2024 **Postdoctoral Associate**, Department of Electrical Engineering, **Tsinghua University** (Advisor: Prof. Feng Liu)

Nov. 2021 — Nov. 2022 **Visting Scholar**, Department of Management, **Technical University of Denmark (DTU)** (Advisor: Prof. Pierre Pinson & Prof. Mads. R. Almassalkhi)

Education

Sep. 2018 - Jun. 2023 Ph.D. in Electrical Engineering, **Tsinghua University** (Advisor: Prof. Lin Cheng)

Sep. 2014 - Jul. 2018 B.S. in Electrical Engineering, **Tianjin University** (Advisor: Prof. Yunfei Mu)

Honors and Awards

2025 Outstanding Youth Editorial Board Member, Power System Protection and Control
Outstanding Reviewers (Top 5), IEEE Transactions on Smart Grid
Distinguished Reviewer, Energy Conversion and Economics
Highly Cited Scholar (Top 5%), China National Knowledge Infrastructure (CNKI)

2024 Best Paper, 2024 IEEE PES General Meeting
High PCSI Paper, Highly Cited Paper, Highly Downloaded Paper (2 Papers), CNKI

2023 Outstanding Individual Science and Technology Contributor Award, Inner Mongolia Autonomous Region of China

2021 Outstanding Paper (Third Prize), Automation of Electric Power Systems
Tsinghua University Sifang Scholarship (¥5k), Tsinghua University

2020/2023 Outstanding Reviewer, Renewable Energy

2020 Tsinghua University Xiaomi Scholarship (¥5k), Tsinghua University

2018 Outstanding Undergraduate (Top 2%), Tianjin University
Outstanding Paper Award, Chinese Society for Electrical Engineering (CSEE)

2017 16th Student Science Award (TOP 10), Tianjin University
Baosteel Education Fund Outstanding Student Scholarship (¥10k), Baosteel Education Foundation

2016 Special Prize of China Instrument & Control Society Scholarship (¥20k), China Instrument & Control Society
National Scholarship (¥8k), Ministry of Education of the People's Republic of China

Research Grants

2025 - 2027 **PI**, Ecobee Donate Your Data Project, “Data-Driven Thermostat Dynamic Behavior Modeling”, $0 (Data Collaboration)

2024 - 2027 Lead Researcher, DOE, “Carrizo Pump Storage Hydropower: Seasonal Storage for Fully Decarbonized Grids”, $14.2M
Lead Researcher, ARPA-E, “Grid-free Renewable Energy Enabling New Ways to Economical Liquids and Long-term Storage”, $3M

2023 - 2026 Lead Researcher, DOE, “Advanced ISO Models for Storage and Hybrid Resources Operation”, $900k

2023 - 2025 **PI**, Postdoctoral Science Foundation Special Funded Project (2023TQ0169), “Trustworthy Response of Virtual Power Plant with Scalable Flexible Resources”, ¥180k

2020 - 2025 **Co-PI**, Science and Technology Major Project of Inner Mongolia Autonomous Region of China (2020ZD0018), “Key Technology of Large-Scale Second-Life Battery Energy Storage Systems”, ¥3M (My budget: ¥300k)

2019 - 2021 Lead Researcher, Science and Technology Project of State Grid Corporation of China North China Branch, “Key Impact Factors on Load Characteristics in North China”, ¥1.5M
Lead Researcher, Science and Technology Project of State Grid Corporation of China, “Research and Demonstration of Multi-Agent and Multi-Energy Virtual Power Plant under the Energy Internet Environment”, ¥3M

2018 - 2022 Lead Researcher, National Nature Science Foundation of China (51777105), “Active Distribution System Planning Based on Data Mining, Risk Hedging and Economic Incentives”, ¥602k

2018 - 2019 Lead Researcher, Science and Technology Project of State Grid Corporation of China, “Coordinated Development Mode of Generation-Network-Load-Storage and Reliability Assessment of Power Systems Considering Inherent Safety Requirements”, ¥1M

2016 - 2017 **PI**, National College Students' Innovation and Entrepreneurship Program, “Energy Dispatching System of Smart Buildings Considering Architectural Thermal Inertia”, ¥10k
PI, National College Students' Innovation and Entrepreneurship Program, “Development of an Independent Real-Time Digital Energy Simulator based on FPGA”, ¥10k

2015 - 2016 **PI**, National College Students' Innovation and Entrepreneurship Program, “Intelligent Cleaning Robot for Photovoltaic Cells”, ¥10k

# Publications (*Equal Contribution)

Journal Articles

1. K. Huang, L. Cheng, **N. Qi***, D. W. Gao, A. Mujeeb, and Q. Guo, "Grid-aware real-time dispatch of microgrid with generalized energy storage: A prediction-free online optimization approach," *IEEE Transactions on Smart Grid*, 2025.
2. K. Huang, L. Cheng, Y. Zhou, F. Shi, Y. Xi, Y. Zhuang, and **N. Qi***, "Real-time peer-to-peer energy trading for multi-microgrids: Improved double auction mechanism and prediction-free online trading approach," *Applied Energy (2nd review)*, 2025.
3. Q. Ji, L. Cheng, F. Shi*, J. Li, Y. Zhou, **N. Qi**, and Y. Xi, "Dynamic socioeconomic event-aware load forecasting: An llm-empowered architecture integrating temporal decomposition and cross-modal attention mechanism," *Applied Energy (1st review)*, 2025.
4. K. Kang, Y. Su, P. Yang, Z. Wang, Y. Zhang, **N. Qi**, and F. Liu*, "Understanding cross-market strategic behaviors of prosumers: An equilibrium-driven evolutionary game approach," *Journal of Cleaner Production*, p. 145 345, 2025.
5. D. Paizulamu*, L. Cheng, H. Xu, Y. Zhuang, **N. Qi**, and S. Ci, "Lifepo4 battery soc estimation under ocv–soc curve error based on adaptive multimodel kalman filter," *IEEE Transactions on Transportation Electrification*, vol. 11, no. 4, pp. 8833–8846, 2025.
6. **N. Qi**, Y. Baker, and B. Xu*, "Online convex optimization for coordinated long-term and short-term isolated microgrid dispatch," *IEEE Transactions on Smart Grid (2nd review)*, 2025.
7. **N. Qi**, X. Jin*, K. Hou, Z. Liu, H. Jia, and W. Wei, "Privacy-preserving uncertainty disclosure for facilitating enhanced energy storage dispatch," *IEEE Transactions on Power Systems (1st review)*, 2025.
8. **N. Qi**, P. Pinson, M. R. Almassalkhi, Y. Zhuang, Y. Su, and F. Liu*, "Capacity credit evaluation of generalized energy storage considering strategic capacity withholding and decision-dependent uncertainty," *Applied Energy*, vol. 397, p. 126 310, 2025.
9. **N. Qi** and B. Xu*, "Locational energy storage bid bounds for facilitating social welfare convergence," *IEEE Transactions on Energy Markets, Policy and Regulation*, 2025.
10. **N. Qi***, K. Huang, Z. Fan, and B. Xu, "Long-term energy management for microgrid with hybrid hydrogen-battery energy storage: A prediction-free coordinated optimization framework," *Applied Energy*, vol. 377, p. 124 485, 2025.
11. Y. Su, P. Yang, K. Kang, Z. Wang, **N. Qi**, T. Liu, and F. Liu*, "Sharing energy in wider area: A two-layer energy sharing scheme for massive prosumers," *Applied Energy*, vol. 392, p. 125 968, 2025.
12. Y. Zhuang, L. Cheng, Y. Cao, T. Li, **N. Qi**, Y. Xu, and Y. Chen*, "Quantum learning and estimation for distribution networks and energy communities coordination," *CSEE Journal of Power and Energy Systems*, 2025.
13. Y. Zhuang, L. Cheng, **N. Qi***, M. R. Almassalkhi, and F. Liu, "An iterative problem-driven scenario reduction framework for stochastic optimization with conditional value-at-risk," *PSCC 2026 (1st review)*, 2025.
14. Y. Zhuang, L. Cheng, **N. Qi***, M. R. Almassalkhi, and F. Liu, "Problem-driven scenario reduction framework for power system stochastic operation," *IEEE Transactions on Power Systems*, vol. 40, no. 4, pp. 3232–3246, 2025.
15. Y. Zhuang, L. Cheng, C. Wan, R. Xie, **N. Qi**, and Y. Chen*, "A weighted predict-and-optimize framework for power system operation considering varying impacts of uncertainty," *IEEE Transactions on Power Systems (2nd review)*, 2025.
16. Y. Zhuang*, L. Cheng, **N. Qi**, X. Wang, and Y. Chen, "Real-time hosting capacity assessment for electric vehicles: A sequential forecast-then-optimize method," *Applied Energy*, vol. 380, p. 125 034, 2025.
17. **N. Qi***, A. Hussain, A. Mujeeb, Z. Javid, S. Zeb, and S. Wu, "Mitigation of overvoltage in lvdc distribution system with constant power load using generic energy storage system," *Journal of Energy Storage*, vol. 95, no. 1, p. 112 554, 2024.
18. **N. Qi***, L. Cheng, H. Li, Y. Zhao, and H. Tian, "Portfolio optimization of generic energy storage-based virtual power plant under decision-dependent uncertainties," *Journal of Energy Storage*, vol. 63, p. 107 000, 2023.
19. **N. Qi***, L. Cheng, and F. Liu, "Capacity credit evaluation of generic energy storage under decision- dependent uncertainty," *Power Grid Technology*, vol. 47, no. 12, pp. 4916–4925, 2023.
20. **N. Qi***, P. Pinson, M. R. Almassalkhi, L. Cheng, and Y. Zhuang, "Chance-constrained generic energy storage operations under decision-dependent uncertainty," *IEEE Transactions on Sustainable Energy*, vol. 14, no. 4, pp. 2234–2248, 2023.
21. Y. Zhuang, L. Cheng, **N. Qi***, W. Chen, X. Wu, and Z. Yao, "Typical scenario generation algorithm for microgrid based on deep temporal clustering," *Automation of Electric Power Systems*, vol. 47, no. 20, pp. 95–103, 2023.
22. L. Cheng, Y. Wan*, **N. Qi**, and Y. Zhou, "Coordinated operation strategy of distribution network with the multi-station integrated system considering the risk of controllable resources," *International Journal of Electrical Power & Energy Systems*, vol. 137, p. 107 793, 2022.
23. S. Ma, T. Xiang, K. Hou, Z. Liu*, P. Tang, and **N. Qi**, "Spatial–temporal optimal dispatch of mobile energy storage for emergency power supply," *Energy Reports*, vol. 8, pp. 322–329, 2022.
24. **N. Qi***, L. Cheng, Y. Zhuang, Y. Zhou, Y. Zhang, and C. Zhu, "Reliability assessment and improvement of distribution system with virtual energy storage under exogenous and endogenous uncertainty," *Journal of Energy Storage*, vol. 56, p. 105 993, 2022.
25. Q. Yun, L. Tian, **N. Qi**, F. Zhang*, and L. Cheng, "Optimization method of resource combination for virtual power plant based on modern portfolio theory," *Automation of Electric Power Systems*, vol. 46, no. 01, pp. 146–154, 2022.
26. L. Cheng, Y. Wan*, **N. Qi**, and L. Tian, "Review and prospect of research on operation reliability of power distribution and consumption system considering various distributed energy resources," *Automation of Electric Power Systems*, vol. 45, no. 22, pp. 191–207, 2021.
27. **N. Qi***, L. Cheng, L. Tian, J. Guo, R. Huang, and C. Wang, "Review and prospect of distribution network planning research considering access of flexible load," *Automation of Electric Power Systems (Best Paper Award)*, vol. 44, no. 10, pp. 193–207, 2020.
28. **N. Qi***, L. Cheng, H. Xu, Z. Wang, and X. Zhou, "Practical demand response potential evaluation of air-conditioning loads for aggregated customers," *Energy Reports*, vol. 6, pp. 71–81, 2020.
29. **N. Qi***, L. Cheng, H. Xu, K. Wu, X. Li, Y. Wang, and R. Liu, "Smart meter data-driven evaluation of operational demand response potential of residential air conditioning loads," *Applied Energy*, vol. 279, p. 115 708, 2020.

30. H. Xu*, L. Cheng, **N. Qi**, and X. Zhou, "Peak shaving potential analysis of distributed load virtual power plants," *Energy Reports*, vol. 6, pp. 515–525, 2020.
31. L. Cheng, **N. Qi***, and L. Tian, "Joint planning of generalized energy storage resource and distributed generator considering operation control strategy," *Automation of Electric Power Systems (Best Paper Award)*, no. 10, pp. 27–40, 2019.
32. B. Yuan, L. Cheng, L. Chen, **N. Qi***, L. Qin, and Y. Wang, "Evaluation method for power grid vulnerability considering operation reliability of components," *Proceedings of the CSU-EPSA*, vol. 8, 2019.
33. **N. Qi**, Z. Xu, and Q. Zhang*, "The application of integral transform method to solve the boundary value problem of electrostatic field," *Journal of EEE (Curriculum Innovation Paper)*, vol. 39, no. 2, pp. 79–82, 2017.

Selected Conference Papers

1. E. Cohn, **N. Qi***, U. Lall, and B. Xu, "A lagrangian-informed long-term dispatch policy for coupled hydropower and photovoltaic systems," in *2025 IEEE Power & Energy Society General Meeting*, 2025, pp. 1–5.
2. N. Ma, N. Zheng, **N. Qi***, and B. Xu, "Comparative withholding behavior analysis of historical energy storage bids in california," in *2025 IEEE Power & Energy Society General Meeting*, 2025, pp. 1–5.
3. K. Huang, L. Cheng, **N. Qi***, Q. Ji, and W. G. David, "Security-aware coordinated dispatch of microgrid: An adaptive online optimization approach," in *2024 IEEE Power & Energy Society General Meeting*, IEEE, 2024, pp. 1–5.
4. **N. Qi**, L. Cheng, K. Huang, A. Mujeeb, F. Liu*, and P. Pinson, "Reliability-aware probabilistic reserve procurement under decision-dependent uncertainty," in *2024 IEEE Power & Energy Society General Meeting (Best Paper)*, IEEE, 2024, pp. 1–5.
5. **N. Qi***, L. Cheng, H. Li, Y. Zhuang, L. Hao, and F. Liu, "Capacity credit evaluation of generic energy storage under decision-dependent uncertainty," in *2023 IEEE PES Innovative Smart Grid Technologies Europe*, IEEE, 2023, pp. 1–5.
6. **N. Qi***, L. Cheng, Y. Wan, Y. Zhuang, and Z. Liu, "Risk assessment with generic energy storage under exogenous and endogenous uncertainty," in *2022 IEEE Power & Energy Society General Meeting*, IEEE, 2022, pp. 1–5.
7. **N. Qi***, L. Cheng, F. Liu, X. Zhou, and F. You, "Optimal mechanism design for incentive-based demand response based on stackelberg game," in *2020 IEEE Sustainable Power and Energy Conference*, IEEE, 2020, pp. 2089–2096.
8. L. Cheng, **N. Qi***, Y. Guo, N. Liu, and W. Wei, "Potential evaluation of distributed energy resources with affine arithmetic," in *2019 IEEE Innovative Smart Grid Technologies-Asia*, IEEE, 2019, pp. 4334–4339.
9. **N. Qi***, L. Cheng, Y. Jiang, J. Luo, K. Sun, D. Wang, L. Cheng, and Q. Wang, "Reliability assessment of generation and transmission systems considering multi-form access of" source-network-load-storage"," in *2019 IEEE Sustainable Power and Energy Conference*, IEEE, 2019, pp. 213–218.
10. **N. Qi***, L. Cheng, Y. Jiang, J. Luo, K. Sun, D. Wang, W. Wang, and W. Sun, "Vulnerability assessment based on operational reliability weighted and preventive planning," in *2019 IEEE Sustainable Power and Energy Conference*, IEEE, 2019, pp. 1749–1754.

Selected Patents

1. F. Liu, K. Kang, **N. Qi**, and Y. Su, "Day-ahead scheduling method and apparatus for power system, electronic device and storage medium," US20250105632A1, 2024.
2. F. Liu, K. Kang, Y. Su, Y. Zhang, and **N. Qi**, "Unit commitment method for power systems and associated components," US20250070568A1, 2024.
3. Z. Han, Q. Jia, G. Na, M. Su, C. Tu, Y. Kang, **N. Qi**, F. Liu, W. Yi, Y. Jun, S. Lu, K. Liu, H. Zhu, Q. Zhang, and X. Li, "Multi-stage robust unit combination method and device based on sequential evolution of batch scenarios," CN117394446A, 2023.
4. K. Kang, F. Liu, **N. Qi**, and Y. Su, "Multi-type energy storage cooperative scheduling method and device for power system and electronic equipment," CN117973735A, 2023.
5. K. Kang, F. Liu, Y. Su, and **N. Qi**, "Power system dispatching method and device considering decision-dependent uncertainty," CN117878941A, 2023.
6. Y. Zhang, L. Cheng, C. Zhu, K. Suo, K. Zhang, **N. Qi**, and Y. Liu, "Hybrid energy storage scheduling method, system and equipment for wind power plant with retired battery," CN115879596A, 2023.
7. Y. Zhang, L. Cheng, C. Zhu, K. Suo, K. Zhang, **N. Qi**, and Y. Liu, "Method and system for evaluating and improving the value of soh in the whole life cycle of energy storage by stages," CN115663936A, 2023.
8. L. Cheng, L. Tian, **N. Qi**, K. Wu, X. Li, Y. Wang, and R. Liu, "Multi-level optimization method for comprehensive energy system considering carbon emission," CN112116131B, 2022.
9. L. Cheng, X. Tian, **N. Qi**, F. Peng, Y. Jiang, X. Gao, Z. Wang, J. Zhang, and Y. Zhang, "Reliability assessment method and system for power transmission system with wind and solar storage," CN110661250B, 2022.
10. E. Lin, L. Cheng, Y. Li, K. Suo, Y. Zhou, and **N. Qi**, "A kind of battery energy storage system price adjustment method and device," Patent Number: CN115063185A, 2022.

Teaching and Supervision

2025 - Present — Co-Supervisor, Emily Logan (Graduate): Kernel Regression for Energy Storage Peak Shaving with Stacked Services
2024 - 2024 — Co-Supervisor, Janie Zhang (Undergraduate): Data-Driven EV Flexibility Learning
Co-Supervisor, Neal Ma (Graduate): Comparative Energy Storage Withholding Behavior Analysis in California
2024 - Present — Co-Supervisor, Eliza Cohn (Graduate): Cascaded Hydropower Operation under Decision-Dependent Uncertainty
Co-Supervisor, Yousuf Baker (Graduate): Non-Anticipatory Networked Energy Storage Market Operation
2022 - 2023 — Co-Supervisor, Kaidi Huang (Graduate): Online Convex Optimization for Microgrid Economic Dispatch and P2P Trading
2021 - 2022 — Co-Supervisor, Yingrui Zhuang (Graduate): Decision Focus Learning for Distribution System Operations with DERs

Teaching and Supervision (continued)

2020 - 2021 Co-Supervisor, Qiuchen Yun (Graduate): Investment Portfolio Optimization for Multi-Service Operations of Virtual Power Plants.
2019 - 2020 Co-Supervisor, Jingxuan Huo (Undergraduate): Planning of North China State Grid based on Big-data
Co-Supervisor, Helin Xu (Undergraduate): Data-driven Demand Response Regulation Potential of Air-conditioning Loads
2023 - 2024 Teaching Assistant, Engineering Game Theory (Ph.D. Course), Tsinghua University
2019 - 2022 Teaching Assistant, Optimization Theory and Method (Ph.D. Course), Tsinghua University
Teaching Assistant, Power System Reliability Evaluation Theory (Undergraduate Course), Tsinghua University
2019 - 2021 Teaching Assistant, State-of-the-art Technology in Electrical Engineering (Ph.D. Course), Tsinghua University
2019 - 2020 Teaching Assistant, China-German Advanced Manufacturing Class (Ph.D. Course), Tsinghua University

Professional Service Statement

2025 Panel Chair, IEEE PES General Meeting, Energy Storage Management for Efficient Market Integration and Operation
2025 - Present Youth Editorial Board Member, Protection and Control of Modern Power Systems
Associated Editor, IEEE Data Descriptions
Young Expert Committee Member, Energy Conversion and Economics
2024 - 2025 Guest Editor, Frontier in Energy Research, Special Issue: Advancing Demand Response in Renewable Smart Grid for a Sustainable Future
Guest Editor, Processes, Special Issue: Recent Technologies on CO2 Capture and (Photo) Electrochemical Utilization
Judge, Student Poster Session & Contest at 2024 IEEE PES General Meeting
2024 - Present Youth Editorial Board Member, Power System Protection and Control
2023 - Present Book Reviewer, Theory and Applications of Engineering Research
2019 - Present Reviewer, IEEE Transactions on Power Systems/Smart Grid/Sustainable Energy/Industrial Application/Transportation Electrification, IEEE Data Descriptions, Applied Energy, JES, IJEPES, IET RPG/GTD, IEEE PES GM, MPCE, PCMP
2019 - 2021 University Contact, Tsinghua University & Automation of Electric Power Systems
2017 - Present Membership, IEEE, IEEE PES, IEEE Young Professionals, IEEE PES SBLC TC, IEEE P762 WG, IEEEP3434 WG, IET, CSEE
2016 Founders and Vice President of the Beiyang Mathematical Research Society, Tianjin University

Invited talks and Lectures

Jul. 2025 Invited Talk, Strategic Battery Behaviors and Enhanced Market Designs, 2025 IEEE PES General Meeting
Joint CU-HKU Senimar, Enhanced Market Design and Long-Term Energy Management of Energy Storage, Columbia University
Apr., 2025 Guest Lecture, Generalized Energy Storage Technologies for Intelligent Distribution Grids, China Agricultural University
Jan. 2025 Invited Talk, Towards Net Zero: The Role of Generalized Energy Storage Systems, Shanghai Jiao Tong University
Dec. 2024 Invited Talk, Towards Net Zero: The Role of Generalized Energy Storage Systems, Tsinghua University
Invited Talk, Measurement, Forecasting, and Control of Reliable Flexibility for Electric Vehicle Loads, 2024 ECE Annual Meeting
Oct. 2024 Invited Talk, Pricing Energy Storage for Social-Welfare Maximization, 2024 Informs Annual Meeting
Sep. 2024 Invited Talk, Chance-Constrained Generalized Energy Storage Operations under Decision-Dependent Uncertainty, Caltech
Jul., 2024 Oral, Reliability-Aware Probabilistic Reserve Procurement under Decision-Dependent Uncertainty, 2024 IEEE PES General Meeting
Apr., 2024 Guest Lecture, Unlocking Reliable Flexibility from Generalized Energy Storage Resources, Aalto University
Oct. 2023 Oral, Capacity Credit Evaluation of Generic Energy Storage under Decision-dependent Uncertainty, 2023 IEEE PES ISGT EUROPE
Jul. 2022 Oral, Risk Assessment with Generic Energy Storage under Exogenous and Endogenous Uncertainty, 2022 IEEE PES General Meeting
Oct. 2020 Oral, Optimal Mechanism Design for Incentive-Based Demand Response Based on Stackelberg Game, 2020 iSPEC
Oct. 2019 Oral, Reliability Assessment of Transmission Systems Considering Multi-Form Access of Source-Network-Load-Storage, 2019 iSPEC
May 2019 Oral, Potential Evaluation of Distributed Energy Resources with Affine Arithmetic, 2019 IEEE PES ISGT ASIA
Nov. 2018 Oral, Joint Planning of Distribution Networks with DR and DG Considering Operation-Control Strategy, 2018 POWERCON
Oct. 2018 Oral, Power and Energy Balance of Active Distribution Network Considering Operation-Control Strategy, 2018 2nd IEEE EI2

References

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