

Aochen (Arsen) Sun

Master in Management Student

China Institute for Studies in Energy Policy (CISEP) & School of Management, Xiamen University

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EDUCATION

Xiamen University

Master in Technologic Economics and Management, 2025 (expected)

Speciality: Energy Management and Policy

Dissertation:

Digital Transformation and Green Development of Heavily Polluting Enterprises: Impact Evaluation, Mechanism Identification, and Spillover Effects

North China Electric Power University (Beijing)

Bachelor in Business Administration, 2022

Speciality: Electric Power Technologic Economics

Short-term Exchange, Kyungpook National University, 2021

Dissertation:

Policy Research on Carbon Emission Trading and Renewable Energy Development

PEER-REVIEWED ARTICLES

Lin, B.[Supervisor], **Sun, A.**, Xie, Y.*, “Digital Transformation and Green Investment of Heavily Polluting Enterprises: The Threshold Effects of Heterogeneous Environmental Regulations”, *IEEE Transactions on Engineering Management*, 2024. DOI: [10.1109/TEM.2024.3453961](https://doi.org/10.1109/TEM.2024.3453961) (SCIQ1/SSCIQ1/ABS3, IF=4.6)

Lin, B.[Supervisor], **Sun, A.**, Xie, Y.*, “Digital transformation and green total factor productivity of heavy pollution enterprises: Impact, mechanism and spillover effect”, *Journal of Environmental Management*, 2025. DOI: [10.1016/j.jenvman.2024.123619](https://doi.org/10.1016/j.jenvman.2024.123619) (SCIQ1, IF=8.0)

RESEARCH-BASED EXPERIENCE

“Strategic Research on Green Hydrogen Production in Fujian Province”, **2024-2025**
Participant

- Sub-Project of *Chinese Academy of Engineering Consulting Research*
Project hosted by Prof. Suping Peng and Prof. Bo Zhang

“Strategic Research on the Collaborative Development of Renewable Energy and Hydrogen Energy in Fujian Province”, Main Participant **2023-2024**

- Sub-Project of *Chinese Academy of Engineering Consulting Research*
Project hosted by Prof. Suping Peng and Prof. Bo Zhang

“Decarbonizing the Dragon: Policy Communities and the Power of Networks”, Research Assistant **2021-2022**

- Book Project hosted by Dr. Jiaqi Lu

“Research on Big Data Correlation Analysis of Key Nodes in Distribution Network Engineering Project Management”, Research Assistant **2021**

- Project of *State Grid Shanghai Municipal Electric Power Company* hosted by Prof. Yongxiu He

HONORS & AWARDS

Honorary Titles

- Excellent Student Cadre of XMU, Xiamen University, 2024.
- Outstanding Graduate of Beijing Municipal, *Beijing Municipal Commission of Education*, 2022.
- Outstanding Graduate of NCEPU, *North China Electric Power University*, 2022.
- Excellent Student of NCEPU, *North China Electric Power University*, 2021.
- Excellent League Cadre of NCEPU, *North China Electric Power University*, 2021.
- Excellent Student of NCEPU, *North China Electric Power University*, 2020.
- Excellent League Cadre of NCEPU, *North China Electric Power University*, 2020.
- Excellent Student of NCEPU, *North China Electric Power University*, 2019.
- Excellent Student Cadre of NCEPU, *North China Electric Power University*, 2019.

Competition Awards

- 2nd Prize of ETF Elite Competition for College Students Nationwide, *Shanghai Stock Exchange*, 2024.
- 3rd Prize of China Post-graduate Mathematical Contest in Modeling, *Association of Chinese Graduate Education*, 2023.
- 2nd Prize of Low Carbon and Emission Reduction Technology Competition for Beijing Municipal College Students, *Beijing Municipal Commission of Education*, 2020.
- 3rd Prize of “Challenge Cup” Business Plan Competition for Capital College Students, *Beijing Municipal Commission of Education*, 2020.
- 3rd Prize of “Internet+” China International College Students’ Innovation Competition, *Beijing Municipal Commission of Education*, 2020.
- 3rd Prize of Five-minute Research Presentation Competition, *China English for Academic Purposes Association*, 2019.
- 1st Prize of SELEP National English Forum on Electric Power and Humanities, *China English for Academic Purposes Association*, 2019.

Scholarships & Fellowships

- National Graduate Scholarship, *Ministry of Education of PRC*, 2024.
- Cho Tak Wong Award Scholarship, *Xiamen University*, 2024.
- 1st Award Scholarship of NCEPU, *North China Electric Power University*, 2021.
- 1st Award Scholarship of NCEPU, *North China Electric Power University*, 2020.
- 1st Award Scholarship of NCEPU, *North China Electric Power University*, 2019.

ACADEMIC SERVICE

- Member of *the Electric Power Technologic Economics Branch, Chinese Society of Technologic Economics*
- Review for:
IEEE Transactions on Engineering Management, The 8th International Conference on Computer Science and Application Engineering (CSAE2024)

SKILLS

Mandarin (native), English (fluent)
R, Python, STATA, ArcGIS

(Updated 12/2024)