

Xinyang Che

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RESEARCH FOCUS

Energy System Modeling, Climate Change, Emerging Low-carbon Technologies

EDUCATION

Utrecht University

Utrecht, Netherlands

Ph.D. in Copernicus Institute of Sustainable Development

01.2026 - current

- Supervised by [Dr. Jing Hu](#), [Prof. Detlef van Vuuren](#) and [Dr. Vinzenz Koning](#).
- Research sections: Energy & Resources, Environmental Sciences

Xi'an Jiaotong University

Xi'an, China

M.Sc. in Electronic Information

09.2022 - 06.2025

- Supervised by [Prof. Hong Gao](#) and [Prof. Bo Liu](#).
- Graduated with Distinction (90.6/100)

Xi'an Jiaotong University

Xi'an, China

B.Eng. in Electrical Engineering

08.2018 - 07.2022

RESEARCH EXPERIENCES

City University of New York

New York, US

Research Assistant in [Deep Policy Lab](#), Baruch College

06.2025 - 12.2025

- Supervised by [Dr. Gang He](#).
- Directions: Climate impacts on energy systems, power systems decarbonization

King's College London

London, UK

Research Assistant in [STAR Lab](#), Dept. of Engineering

03.2024 - 04.2025

Visiting student in Engineering, Faculty of Natural, Mathematical & Engineering Sciences 07.2024 - 08.2024

- Supervised by [Dr. Wei He](#).
- Directions: Energy system modeling, emerging low-carbon technologies

PUBLICATIONS & PRE-PRINTS

2. **Xinyang Che**, Lijun Liu, Wei He. 2025. [Assess space-based solar power for European-scale power system decarbonization](#). *Joule* 9 (9), 102074.

Coverage: [BBC](#), [The Guardian](#), [CBC](#), [KCL News](#), [REI](#), [PV Magazine](#), [Payload](#)

Presentation: [3rd PyPSA User Meeting](#), [Workshop on Open Modeling Carbon Neutrality of the Power Sector](#), Utrecht University

1. Yue Zhang*, **Xinyang Che***, Yuanbang Wei, Rui Tian, Yi-an Li, Miao Zhang, Shuai Li, Bo Liu. 2025. [Experimental investigation of the uncertainty relation in pre- and postselected systems](#). *Phys. Rev. A* 111, 063705.

(*: equal contribution)

SELECTED PROJECTS

3. Climate- and energy drought-resilient energy system decarbonization

Supervisor: Jing Hu, Detlef van Vuuren and Vinzenz Koning

Utrecht University, Ongoing

2. Climate change impacts on wind and solar capacity planning in Europe

Supervisor: Gang He

City University of New York, Ongoing

1. Assess space-based solar power for European-scale power system decarbonization

Supervisor: Wei He

King's College London, 03.2024 - 04.2025

PROFESSIONAL EXPERIENCES

Ankang Hydropower Station, Operations Department Intern

07.2021 - 08.2021

SELECTED AWARDS

2024 Master's Academic Scholarship from Xi'an Jiaotong University

2023 Master's Academic Scholarship from Xi'an Jiaotong University

2022 Excellent Award in the "Tengfei Cup" Innovation and Entrepreneurship Competition

2022 Master's Freshman Scholarship from Xi'an Jiaotong University

2019 Xi'an Jiaotong University Scholarship

MEDIA COVERAGE & PRESENTATIONS

2025 BBC: Could solar panels in space be the energy source of the future?

2025 The Guardian: Solar panels in space "could provide 80% of Europe's renewable energy by 2050"

2025 CBC: L'énergie solaire spatiale, science-fiction ou réalité?

2025 KCL News: Solar panels in space could cut Europe's renewable energy needs by 80%

2025 Presentation: 3rd PyPSA User Meeting, Online

2025 Presentation: Workshop on Open Modeling Carbon Neutrality of the Power Sector, Xi'an