

# Xinyang Che

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## RESEARCH FOCUS

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

## EDUCATION

### Utrecht University

*Ph.D. in Copernicus Institute of Sustainable Development*

*Utrecht, Netherlands*

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

*M.Sc. in Electronic Information*

*Xi'an, China*

09.2022 - 06.2025

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

### Xi'an Jiaotong University

*B.Eng. in Electrical Engineering*

*Xi'an, China*

08.2018 - 07.2022

## RESEARCH EXPERIENCES

### City University of New York

*Research Assistant in Deep Policy Lab, Baruch College*

*New York, US*

06.2025 - 12.2025

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

### King's College London

*Research Assistant in STAR Lab, Dept. of Engineering*

*London, UK*

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*

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## PROFESSIONAL EXPERIENCES

Ankang Hydropower Station, *Operations Department Intern*

07.2021 - 08.2021

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## 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

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## 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