

(Albert) Yuang Chen

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Education

Massachusetts Institute of Technology, PhD in Social and Engineering Systems Sept 2022 – Current

- Advisor: Prof. Noelle Selin
- GPA: 4.99/5.0
- **Coursework:** Probability, Statistics, Econometrics, Causal Inference, Machine Learning, Science Policy, Environmental Policy, Environmental Economics, Climate Science, Atmospheric Physics and Chemistry

Peking University, BS in Environmental Science and Economics Sept 2018 – July 2022

- GPA: 3.74/4.0

Publications

Chen, Y., Eastham, S., Allroggen, F., Clark, W., & Selin, N. (In preparation). Air quality impacts from electricity purchase and air travel by organizations. *Environmental Research Letters*.

Cai, X., Yang, M., Liu, M., **Chen, Y.**, Yu, C., Zhang, H., Zhang, Q., Ma, S., Dou, X., Meng, J., & Wang, X. (2025). China's municipal wastewater policies enhanced seafood safety and offset health risks from atmospheric mercury emissions in the past four decades. *Nature Food*, 1–14. <https://doi.org/10.1038/s43016-024-01093-9>

Sievert, K., Song, Y., **Chen, Y.**, & Karplus, V. (2024). Expanding renewable electricity use in global corporate supply chains. *Environmental Research: Energy*, 2(4). <https://doi.org/10.1088/2753-3751/ad5448>

Chen, Y., Zhang, Q., Cai, X., Zhang, H., Lin, H., Zheng, C., Guo, Z., Hu, S., Chen, L., Tao, S., Liu, M., & Wang, X. (2022). Rapid increase in China's industrial ammonia emissions: Evidence from unit-based mapping. *Environmental Science & Technology*, 55(7), 4086–4094. <https://doi.org/10.1021/acs.est.1c08369>

Research Experience

Research Assistant, MIT – Cambridge, MA Sep 2022 – Current

- Investigating the air quality impacts of climate and energy policies across temporal, spatial, and sectoral dimensions using atmospheric modeling, energy system analysis, and causal inference.
- Employing tools such as US-EGO, GEOS-Chem, and air quality emulators to quantify policy effectiveness and inform strategies that maximize both climate and air quality benefits.

Research Assistant, Carnegie Mellon University – Remote Mar 2021 – Sep 2021

- Analyzing policy impact in China's renewable energy deployment with economic dispatch model

Research Assistant, Stony Brook University – Remote Dec 2020 – Mar 2021

- Developing SWITCH-China energy optimization model

Service

Co-Organizer, Center for Sustainable Science and Strategy (CS3) student seminar Sep 2024 – Current

Challenge Director – Climate, MIT Policy Hackathon Sep 2024 – Dec 2024

Captain, MIT Ultimate Frisbee Team Sep 2023 – Dec 2024

Awards

MIT IDSS Graduate Fellowship 2022

Outstanding Graduate of Beijing (1%) 2022

Best Graduation Thesis of Peking University (1%) 2022

Skills

Languages: Python, R, Linux, Fortran, XML, C++, Bash, Git

Tools: MATLAB, GEOS-Chem, CESM, PyTorch, GenX, SWITCH-China, US-EGO