Kaichao Chang

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EDUCATION

University of Maryland — College Park, MD
Ph.D. student, Agricultural & Resource Economics — Sep 2023 –

Duke University — Durham, NC
M.S., Economics & Computation — Sep 2020 – Dec 2022

University of Colorado, Denver — Denver, CO
B.A., in Economics & B.S., in Mathematics — Sep 2016 - May 2020

China Agricultural University — Beijing
B.A., in Economics — Sep 2016 - May 2020

RESEARCH FIELDS

Environmental economics, Applied microeconomics, Water pollution, Forest economics, Spatial economics

PUBLICATIONS

Vincent, J., Aga, Y., Boscolo, M., **Chang, K.**, Cheng, Z., Dilger, J., ... & Finegold, Y. (2025). Assessing conditions to scale up private investment in forest restoration. Journal of Forest Business Research, 4(1), 37-72.

Newburn, D. A., Wang, H., Johnston, R. J., **Chang, K.**, & Ndebele, T. (2025). High-resolution spatial modeling of household lawn fertilizer behavior: Implications for targeting nitrogen-reduction programs. Journal of Environmental Management, 395, 127655.

Byakagaba, P., Kabutey-Ongor, M., Babyenda, P., Bbaale, E., **Chang, K.**, Vincent, J. R., & Mullan, K. (2026). Differential livelihood impacts of eucalypt and pine plantations on state-owned land. Journal of Forest Economics, 1-26.

RESEARCH IN PROGRESS

Incentives for Household Adoption of Advanced Septic Systems: Integrated Modeling of Nitrogen Reduction in Coastal Waters (with David Newburn)

WORKING PAPERS

He, W., Murray, B., **Chang, K.**, Erdman, K., Giri, C., Huang, R., ... & Vincent, J. (2025). Protected areas can provide net benefits without reducing the loss of ecosystem area. R&R, Nature Communications.

Chang, K., Becker, C. ZATO: The Lives of Closed Cities after the Dissolution of the USSR.

Allen, C., Vincent, J., **Chang, K.**, Wang, Y., Adamo, S., Curran, S. Subnational Areas with Aging Populations Yield Forest Cover Expansion in Low- And Middle-Income Countries.

Chang, K. Land Use Effects of Rural-to-Urban Migration Policy: Evidence from China's 2014 Hukou Reform. (UMD AREC Second Year Paper)

RESEARCH EXPERIENCE

Research Assistant of Dr. David Newburn, Department of Agricultural and Resource Economics, University of Maryland, Spring 2024, Spring 2026

Research Assistant of Dr. Jeff Vincent, Nicholas School of the Environment, Duke University, Fall 2022, Spring 2023

CONFERENCE & WORKSHOP PRESENTATIONS

"ZATO: The Lives of Closed Cities after the Dissolution of the USSR."

- Southern Economic Association Annual Conference, 2024
- CARIN Research Webinar, Michigan State University, 2026

TEACHING EXPERIENCE

AREC 455: Economics of Land Use, University of Maryland, **Teaching Assistant** to Dr. David Newburn, Fall 2023, Fall 2024, Fall 2025

AREC 454: The Economics of Climate Change, University of Maryland, **Teaching Assistant** to Dr. Anna Alberini, Spring 2025

ECON 390: Tracking Warzone Economic Activity in Ukraine - A Data Science Approach, Duke University, **Instructor** with Dr. Mihnea Constantinescu, Dr. Charles Becker, Dr. Peter Devine, Spring 2023

ECON 627/407: Soviet & Post-Soviet Economic History, Duke University, **Teaching Assistant** to Dr. Charles Becker, Fall 2021, Fall 2022

PROFESSIONAL SERVICE & MISCELLANY

Referee Service

Energy Economics

Programming & Software Skills

ArcGIS; LATEX; Python; R; Stata

REFERENCES

Advisor

David A. Newburn

Associate Professor

University of Maryland

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