

# Alice Tianbo Zhang

## Curriculum Vitae

January 20, 2022

Washington and Lee University  
Williams School of Commerce,  
Economics, and Politics  
Huntley 304, Lexington, VA 24450

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## Appointments

Affiliate Faculty Member, Environmental Studies Program, Washington and Lee University, 2021-

Assistant Professor, Department of Economics, Washington and Lee University, 2020 -

Postdoctoral Research Associate, Princeton University, 2019 - 2020

Princeton School of Public and International Affairs & C-PREE

Advisor: Michael Oppenheimer

Graduate Research Fellow, Columbia University, 2017-2018

Teaching Fellow, Columbia University, 2014-2017

## Affiliations

Research Affiliate, Earth Institute, Columbia University, 2019 -

Fellow, Center for Development Economics and Policy, Columbia University, 2018 -

## Education

Ph.D. Sustainable Development, Columbia University, 2019

Dissertation Title: "When Nature Meets Human Nature: Essays on the Social Impacts of Energy Infrastructure and Environmental Policy"

Advisors: Rodrigo R. Soares, Wolfram Schlenker, Geoffrey M. Heal

M.A. Sustainable Development, Columbia University, 2016

Thesis Title: "Nonlinear Impact of Temperature on Mortality: Evidence from Monthly Weather Variations in France"

Advisor: Matthew Neidell

Training: Summer Workshop in Climate Change Economics, UC Berkeley, 2015

B.A. Economics, Statistics, Public Policy Minor, *Cum Laude*, University of California, Berkeley, 2013

## Research & Teaching Interests

Environmental and Energy Economics | Development Economics | Political Economy

Climate Change Impact, Adaptation, Mitigation | Natural Hazards | Migration | Social Justice

## Research

\* lead author \* equal contribution

### *Published and Forthcoming*

1. Urpelainen, Johannes\*, and Alice Tianbo Zhang\*. 2022. "Electoral Backlash or Positive Reinforcement? Wind Power and Congressional Elections in the United States." *Forthcoming*. The Journal of Politics. [\[Link\]](#)
2. Guo, Dong\*, Anyi Wang\*, and Alice Tianbo Zhang\*. 2020. "Pollution Exposure and Willingness to Pay for Clean Air in Urban China." *Journal of Environmental Management* 261 (May): 110174. [\[Link\]](#)

### *Under Review and Working*

3. Within but Without: Involuntary Displacement and Economic Development. SSRN Working Paper #3358089, September 2018. [\[Link\]](#)
4. Valuing the Global Mortality Consequences of Climate Change Accounting for Adaptation Costs and Benefits. NBER Working Paper #27599, July 2020. (with T. Carleton, M. Delgado, M. Greenstone, T. Houser, S. Hsiang, A. Hultgren, A. Jina, R. Kopp, K. McCuster, I. Nath, J. Rising, A. Rode, H. K. Seo, J. Simcock, A. Viaene, J. Yuan) [\[Link\]](#)  
*Under Review*
5. Dams Significantly Increase Global Surface Water Over the Past Three Decades\* (with Xinyi Gu)  
*Under Review*
6. Evidence of Multi-Dimensional Gender Inequality in Energy Services from a Large-Scale Household Survey in India\* (with S. Patnaik, S. Jha, S. Agrawal, C. Gould, J. Urpelainen)  
*Revise and Resubmit, Nature Energy*
7. Variability in the Household Use of Cooking Fuels: The Importance of Dishes Cooked, Non-Cooking End Uses, and Seasonality in Understanding Fuel Stacking in Rural and Urban Slum Communities in Six North Indian States (with C. Gould, S. Jha, S. Patnaik, S. Agrawal, S. Saluja, V. Nandan, J. Urpelainen)  
*Under Review*

### *Selected Work in Progress*

Hurricane Harvey and Business Recovery (with E. Kalhor, S. Lackner and M. Oppenheimer)

Natural Disasters and Consumer Behavior (with Tom Bearpark and Michael Oppenheimer)

### *Book Chapters and Policy Articles*

Zhang, Alice Tianbo. 2019. "Development and Displacement." Phenomenal World, Blog of the Jain Family Institute. [\[Link\]](#)

Zhang, Alice Tianbo, Johannes Urpelainen, and Wolfram Schlenker. 2018. "Power of the River: Introducing the Global Dam Tracker (GDAT)." Faculty Grant Program Research Report. Center on Global Energy Policy. [\[Link\]](#)

Lu, Yao, and Alice Tianbo Zhang. 2016. "The Link between Migration and Health." In Handbook on Migration and Health, edited by Felicity Thomas. Edward Elgar Publishing. [\[Link\]](#)

## Original Data

Global Dam Tracker (GDAT)

**Description:** Global dam database (n = 35,140) with validated geo-coordinates and attributes.

**Status:** pending

The Gender Perception Survey for Energy Access and Use

**Description:** Survey with 2,312 rural and urban slum households (n = 4,624) across 6 Indian states.

**Status:** data available

Henan Urban Sustainability Survey (HUSS)

**Description:** Survey with 3,020 respondents across 3 Chinese cities in Henan province.

**Status:** data available

## Awards, Honors, and Grants

Summer Research Scholar Program Grant, Washington and Lee University, 2021

Lenfest Summer Fellowship Award, Washington and Lee University, 2020, 2021

CSWEP CeMENT Workshop, American Economic Association, 2021

Winter Research Scholar Program Grant, Washington and Lee University, 2020-2021

Data-Driven Social Science Initiative Large-Scale Grant, Princeton University, 2020-

Keynote Speaker, "2019 Henan Urban Sustainability Ranking Report" Press Conference, 2020

Zhongyuan Development Research Innovation Award, 2020

Dissertation Fellowship, Columbia University, 2018-2019

National Academy of Sciences, Sackler Colloquium Travel Award, 2018

Research Grant for "A Global Database of Dams," Columbia University, 2017-2018

Student Fellow, Initiative for Sustainable Energy Policy, Johns Hopkins University, 2017-

Dean's Fellowship, Columbia University, 2013-2018

Omicron Delta Epsilon, UC Berkeley Chapter, 2011-2013

Dean's Honors List, University of California, Berkeley, 2011-2013

## Teaching

### *Washington and Lee University*

Climate and Society (Undergraduate, Economics), Instructor: Winter 2022  
Introduction to Economics (Undergraduate, Economics), Instructor: Winter 2021, 2022  
Statistics for Economics (Undergraduate, Economics), Instructor: Fall 2020, 2021

### *Columbia University*

Microeconomics and Public Policy (Graduate, Public Policy), Tutor: Fall 2017  
Microeconomics and Policy Analysis (Graduate, Public Policy), TA: Fall 2016  
Introductory Statistics (Graduate, Public Policy), TA: Summer 2016  
Introduction to Development Economics (Undergraduate, Economics), Grader: Spring 2016  
Gender and Applied Economics (Undergraduate, Economics), TA: Spring 2016, 2017  
Research Methods in Public Management & Policy (Graduate, Public Policy), TA: Fall 2015  
Challenges of Sustainable Development (Undergraduate, Sustainable Development), TA: Spring 2015  
Science for Sustainable Development (Undergraduate, Sustainable Development), TA: Fall 2014

## Advising

Abbey Pinkerton W&L '22, Winter & Summer Research Scholar, 2020-2021  
Carrie Morrison W&L '22, Summer Research Scholar, 2021  
First-year advisees ( $\times 5$ ), 2021-2022  
Major advisees ( $\times 2$ ), 2021-2022

## Service

### *Washington and Lee University*

Advisory Board, The Roger Mudd Center for Ethics, 2021-2024  
University Sustainability Committee, 2021-2024  
Econ-DeLaney Proposal Development Committee, Economics Department, 2021  
Econ 202 Review Task Force, Economics Department, 2021  
Faculty Hiring Committee, Economics Department, 2020-2021

## *Columbia University*

Student Committee, Sustainable Development Ph.D. Program, 2017-2018

Co-organizer, Sustainable Development Colloquium, 2015-2016

Student Representative, Earth Institute Faculty Meetings, 2015-2016

Co-organizer, Interdisciplinary Workshop in Sustainable Development, 2015

Co-organizer, Alliance Summer School in Science and Policy, Columbia – Sciences Po, 2014

## Seminar and Conference Presentations

\* Scheduled

Seminar on Planetary Management\* (2022); Columbia Women in Economics Conference (2021); Southern Economic Association Annual Meeting (2020); American Geophysical Union (2016, 2020); Princeton University (2019, 2020); Princeton Research Day (2020); Central China Development Research Institute (2020); Henan University (2020); Johns Hopkins University, Initiative on Sustainable Energy Policy Workshop (2019); New York University, Institute for Policy Integrity (2019); Center for Global Development (2019); Wheaton College (2019); Washington and Lee University (2019); U.C. Santa Barbara Occasional Workshop (2018); Columbia University Development Seminar (2018); Columbia University Sustainable Development Seminar (2014, 2018); Sustainable Development Research Symposium (2016, 2018); National Academy of Science Sackler Colloquium on Economics, Environment and Sustainable Development (2018); University of Illinois, Urbana-Champaign, Heartland Environmental and Resource Economics Workshop (2017); Columbia University Development Colloquium (2017), Interdisciplinary Ph.D. Workshop in Sustainable Development (2016), Columbia University Sustainable Development Colloquium (2015, 2016, 2017)

Last updated: January 20, 2022