

Ross Buchanan

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EDUCATION & EXPERIENCE

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| University of Texas at Austin | 2013 – Present |
| <ul style="list-style-type: none">• Ph.D., Government<ul style="list-style-type: none">◦ Expected graduation: Spring 2020• Committee:<ul style="list-style-type: none">◦ Bryan Jones (co-Chair), Christopher Wlezien (co-chair), Brian Roberts, Eugenio Y. Arima (UT Geography Dept.)• M.A., Government, 2018<ul style="list-style-type: none">◦ Fields: Comparative Politics, Public Policy | |
| Fulbright Korea | 2010 – 2013 |
| <ul style="list-style-type: none">• Taught English speaking and writing classes at Cheongwon High School in South Korea.• Critical Language Enhancement Award at Jungwon University (2011). | |
| AmeriCorps City Year | 2009 – 2010 |
| <ul style="list-style-type: none">• Tutored and organized service activities for low income high school students in Seattle. | |
| College of Wooster | 2005 – 2009 |
| <ul style="list-style-type: none">• B.A., International Relations | |

DISSERTATION

- *The Public, Politics, and Pollution: Dynamic Responsiveness in the United States and China*
- Examines the tangible outcomes of policy responsiveness and how they dynamically feed back on public opinion and policy.
- Analysis focuses on the issue area of air pollution; includes the states and 319 localities in the United States (2006 – 2016), and the provinces and 274 localities in China (2013 – 2015).

RESEARCH SKILLS

Temporal-Geospatial Analysis in R

- Working with satellite-derived air pollution data and NOAA atmospheric data.
- Using lagged spatial autoregressive (SAR) models.
- Completed specialized course at the Statistics & Data Sciences Dept. at UT Austin (2017).

Structural Equation Modeling in R

- Can account for latent variables and error correlation in systems of equations.
- Completed specialized course at the Statistics & Data Sciences Dept. at UT Austin (2018).

Proficiency in R

- Managing and combining heterogeneous datasets.
- Statistical analysis.
- Econometric modeling.

Web Scraping in Python

- Used Python (through Selenium WebDriver) to collect and analyze tens of thousands of Chinese government work reports and articles in state newspapers.

Text Analysis in Python

- Used the frequency and placement of keywords in over 12,000 annual Chinese city government work reports to estimate local-level changes in air pollution mitigation efforts.

RESEARCH INTERESTS

Public Policy

- Policy Responsiveness, Public Opinion, Authoritarianism, Federalism, Policy Implementation.

Environmental Politics

- Air Pollution Outcomes, Policy Effectiveness, Public Awareness, Remote Sensing Data.

ACADEMIC PUBLICATIONS

- Lavenex, Sandra, Flavia Jurje, Terri Givens, and Ross Buchanan. 2016. "Regional Migration Governance". In *The Oxford Handbook of Comparative Regionalism*, eds. Tanja A. Börzel and Thomas Risse. Oxford: Oxford University Press, 457–85.
- Qin, Xiaolei, and Ross Buchanan. Forthcoming. "Policy and Public Preferences Regarding the University Enrollment Quotas System across Chinese Provinces". *Higher Education Policy*.

CONFERENCE PAPERS

- "All Politics is Local? Policy Responsiveness of Local, State, and National Governments in the United States." Midwest Political Science Association. 2019.
- "Responsiveness and Feedback under Authoritarianism: The Public, City Governments, and Air Pollution in China." Southern Political Science Association. 2019.
- "Responsiveness and Feedback under Authoritarianism: The Public, City Governments, and Air Pollution in China." Southern Political Science Association. 2019.
- "Policy Implementation Responsiveness to Public Participation in an Authoritarian Regime." Midwest Political Science Association. 2018.
- "Policy Responsiveness in Authoritarian Regimes: The Case of Air Pollution in China." Midwest Political Science Association. 2017.

REFERENCES

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