

T. Ryan Johnson

Contact Information	Washington University One Brookings Drive Campus Box 1063, Seigle 207 St. Louis, MO 63130	thomas.johnson@wustl.edu johnsontr.github.io
Education	Washington University in St. Louis , Ph.D., Political Science, 2026 (<i>expected</i>) University of Houston , M.A., Economics, 2017 Sam Houston State University , M.S., Mathematics, 2014 Texas A&M University , B.A., Economics and Mathematics, 2008	
Research Interests	American Politics : representation and electoral systems Political Methodology : Bayesian statistics, causal inference, spatial statistics Formal Theory : political economy, structural estimation	
Publications	Johnson, T. Ryan and Dietrich Vollrath (2020). "The Role of Land in Temperate and Tropical Agriculture." <i>Economica</i> 87 (348), 901-938. bin Oslan, Afiq and T. Ryan Johnson (2025). "Spies in a barrel: When to reel in espionage." <i>Journal of Theoretical Politics</i> (OnlineFirst), 1-23.	
Working Papers	"Kriging for Robust Standard Errors" "On using a random effect with a Gaussian process prior instead of a spatial trend"	
Work in Progress	"Estimating the Random Coefficients Logit with Voter Files" "Flood Risk and Turnout" "Modeling Spatial Effects with Gaussian Processes"	
Software	<i>gpd</i> (Gaussian process derivatives), an addon for the Matlab toolkit <i>gpml</i> . GitHub Repo: https://github.com/johnsontr/gpd	
Departmental Service	Co-Coordinator, Political Economy Workshop, WashU Political Science (2023) Coordinator, Formal Theory Workshop, WashU Political Science (2021, 2022) Coordinator, Political Data Science Lab, WashU Political Science (2021)	
Professional Service	Referee <i>Political Analysis</i> Discussant Comparative Politics Annual Conference (2022, 2023)	
Grant	2022. Weidenbaum Center Research Grant, "Flooding, Voting, and the Political Economy of Risky Assets" w/ Guillermo Rosas and Bryant Moy (\$11,975)	
Presentations	APSA Annual Meeting (Los Angeles - 2023), Midwest ISA (St. Louis - 2023)	
Invited Talk	University of Missouri American Politics Brown Bag (2023)	

Conference Attendance	Comparative Politics Annual Conference (WashU - 2021, 2022, 2023), Annual Meeting of the Society for Political Methodology (St. Louis - 2022), Empirical Models of Political Economy (Caltech - 2023), Borders, Territory and the State System (WashU - 2023)
Teaching	<p>Saint Louis University, Department of Computer Science¹</p> <p>Introduction to Computer Science: Taming Big Data (Fall 2024)</p> <p>Saint Louis University, Department of Earth and Atmospheric Sciences²</p> <p>Introduction to Geographic Information Systems (Fall 2024)</p> <p>Washington University in St. Louis, Department of Political Science³</p> <p>Math Camp, Summer 2021 (Summer 2022)</p> <p>Applied Statistical Programming, (Spring 2022)</p> <p>Formal Models of Political Institution (Fall 2021)</p> <p>American Political Institutions (Fall 2021)</p> <p>Causal Inference (Spring 2021)</p> <p>Computational Social Science (Fall 2020)</p> <p>Theories of Individual and Collective Choice II (Spring 2020)</p> <p>Mathematical Modeling (Fall 2019)</p> <p>Sam Houston State University, Department of Mathematics & Statistics⁴</p> <p>Developmental Mathematics II (Fall 2011, Spring 2012, Fall 2012, Spring 2013)</p>
Technical Skills	ArcGIS, geographic information systems (GIS), Matlab, Python, R, SQL
Languages	English (Native), German

¹ Instructor of record for undergraduate course

² Instructor of record for combined undergraduate and graduate course sections

³ Teaching assistant at the Ph.D. level for all courses listed

⁴ Instructor of record for undergraduate courses