

Simon Mathias Hoellerbauer

CONTACT INFORMATION	Mathematics and Statistics Department Vassar College Rockefeller Hall 206 Poughkeepsie, NY 12604	https://hoellers.github.io/ hoellerbauers@gmail.com shoellerbauer@vassar.edu August 9, 2023
EDUCATION	The University of North Carolina , Chapel Hill, North Carolina, USA Ph.D., Political Science, Statistics Minor Summer 2022 <ul style="list-style-type: none">• Thesis: “Three Papers on Model-Based Survey Methodology”• Committee: Graeme Robertson (chair), Lucy Martin, Brigitte Seim, Santiago Olivella, Ted Enamorado Kenyon College , Gambier, Ohio, USA B.A., Political Science and Modern Languages and Literatures (High Honors), <i>summa cum laude</i> , Phi Beta Kappa, May 2014	
PROFESSIONAL EXPERIENCE	Postdoctoral Fellow of Data Science and Society, Vassar College	August 2022 – Present
RESEARCH INTERESTS	Civil society, development, measurement of democracy and civil society, survey methodology, data quality, machine learning	
REFEREED JOURNAL ARTICLES	“Why Join? How Civil Society Organizations’ Attributes Signal Congruence and Impact Community Engagement,” <i>Journal of Experimental Political Science</i> , 10 (1): 88-99, DOI: 10.1017/XPS.2021.27	
ARTICLES UNDER REVIEW	“A Mixture Model Approach to Assessing Measurement Error in Surveys Using Reinterviews,” Conditionally Accepted at the <i>Journal of Survey Statistics and Methodology</i>	
RESEARCH IN PROGRESS	“Enumerators as Treatment Versions: Enumerator-Induced Treatment Heterogeneity and its Consequences,” with Jing Qian and Brandon de la Cuesta (Dissertation Paper) “Modeling Civic Engagement with Organizations: A Novel Application of Conjoint Survey Experiments” (Dissertation Paper) “How Many Is Too Many? Outcome Questions in Conjoint Survey Experiments” “Measuring Local-Level Patronage: A Mixed-Membership Approach,” with Kate McKiernan “Marketing Taxation? Experimental Evidence on Enforcement and Bargaining in Malawian Markets,” with Lucy Martin, Brigitte Seim, and Luis Camacho “Investigating Tax Policy Preferences Among Citizens in Weak-State Contexts,” with Lucy Martin and Brigitte Seim	

“The Effect of Government Repression on the Operational Decisions of Local NGOs,” with Erik Wibbels, Maria Jeremy Springman, Maria Nagawa, and Graeme Robertson

CONFERENCE PRESENTATIONS “Enumerators as Treatment Versions: Enumerator-Induced Treatment Heterogeneity and its Consequences,” with Jing Qian and Brandon de la Cuesta, Paper presented at the Annual Conference of the Midwest Political Science Association, Chicago, IL, April 2023.

“Enumerators as Treatment Versions: Enumerator-Induced Treatment Heterogeneity and its Consequences,” with Jing Qian and Brandon de la Cuesta, Paper presented at Pre-APSA Workshop on External Validity, Montreal, CAN, September 2022.

“How Many Is Too Many? Outcome Questions in Conjoint Survey Experiments,” Poster presented at the 39th Annual Meeting of the Society for Political Methodology, St. Louis, MO, July 2022.

“Mixture Models and Survey Quality,” Lightning Talk presented at 2021 St. Louis Area Methods Meeting (SLAMM! 2021, Virtual).

“Marketing Taxation? Experimental Evidence on Enforcement and Bargaining in Malawian Markets,” with Lucy Martin and Brigitte Seim. Paper presented at the Annual Conference of the American Political Science Association, September 2020.

“Distances in Latent Space: A Novel Approach to Analyzing Conjoint.” Poster presented at the 37th Annual Meeting of the Society for Political Methodology (Virtual), July 2020.

“Using Mixture Models to Assess Enumerator and Survey Quality: An Extension of Probabilistic Record Linkage.” Poster presented at the 36th Annual Meeting of the Society for Political Methodology, Cambridge, MA, July 2019.

“Foreign Aid’s Impact on the Demand Side of Civil Society in Developing Countries.” Paper presented at the Annual Conference of the Midwest Political Science Association, Chicago, IL, April 2019.

“Populism as a Determinant of Foreign Aid Allocation,” with Jacob Smith. Paper presented at the Annual Conference of the Midwest Political Science Association, Chicago, IL, April 2018.

RESEARCH EXPERIENCE Research Assistant for Lucy Martin and Brigitte Seim **Sept. 2017 – Feb. 2020**

- Assist with USAID-funded RCT project in Malawi (contracted to NORC at the University of Chicago) designed to improve tax compliance in Malawian markets, part of a broader project intended to improve governance — Local

Governance and Accountability Project (LGAP)

- Included travel to Malawi to assist with roll-out of endline survey
- Research Assistant for Brigitte Zimmerman **March 2018 – May 2018**
- Used R to aggregate a project level merge of AidData 3.1 and V-Dem 8.0 up to the country-year level.

TEACHING
EXPERIENCE

Vassar College:

MATH/CMPU 144: Foundations of Data Science **FA 2022**

MATH/CMPU 280: Intermediate Data Science **SP 2023**

LACOL: Applied Machine Learning **SU 2023**

The University of North Carolina at Chapel Hill (as full instructor):

POLI 291: Undergraduate Learning Assistant Practicum **FA 2021**

POLI 281: Data in Politics I **SP 2021, FA 2021**

POLI 784: Regression Models Lab **SP 2019, SP 2020**

POLI 130: Intro to Comparative Politics **SSII 2018, SSII 2019,
FA 2019, FA 2020**

PROFESSIONAL
EXPERIENCE

Associate Scholar, Foreign Policy Research Institute's Eurasia Program

Apr. 2016 – Present

- Write articles for FPRI on a variety of topics, focusing on Eurasia
- Write opinion pieces on political developments in Eurasian countries
- Communicate with the FPRI scholarly community

Contractor, NORC at the University of Chicago, on NORC Project 7554.030.99 (Impact Evaluation of USAID/Malawi's Local Government Accountability and Performance Activity (LGAP))

December 2017 – December 2019

- Co-author with Lucy Martin and Brigitte Seim of [Impact Evaluation Final Report](#)
- Performed econometric analysis (OLS, GLM, hierarchical, instrumental variables, spillover) of large-scale randomized control trial in Malawi in R and Stata
- Analyzed survey data, including developing operationalizations of key concepts using survey questions
- Managed information exchange with survey partner (IPA) and project implementer (DAI)
- Constructed survey instruments
- Traveled to Malawi in order to help facilitate rollout of endline survey in October 2018

Consultant, The Cloudburst Group, on USAID Project LER II Armenia CB.003
Dec. 2018 – July 2019

- With Graeme Robertson drafted the *Civil Society and Media Evidence in Armenia Review* for USAID Armenia
- With Graeme Robertson provided feedback on draft versions of the *Civil Society in Armenia Field Assessment*, including adding additional intervention recommendations

UkraineAlert Intern, Atlantic Council's Eurasia Center
May 2015 – July 2017

- Gathered articles for the Recommended Reads section of UkraineAlert
- Provided general research assistance to the UkraineAlert editor, including creating profiles of politicians who could serve as the subject of articles
- Proof-read and edited the German translation of the Atlantic Council's *Hiding in Plain Sight*

Research Intern, Foreign Policy Research Institute's Project on Democratic Transitions

Feb 2015 – Apr. 2016

- Researched democratic transitions, including US spending on democracy assistance in Central Asia
- Gathered democracy measurement scores for Eurasian countries from Polity IV, Freedom House's Nations in Transit and World Bank's Voice and Accountability Scores
- Evaluated pros and cons of Polity IV, Nations in Transit and Voice and Accountability Scores
- Provided general research support
- Wrote opinion pieces for FPRI's *Geopoliticus* blog

SERVICE

Departmental:

UNC - Chapel Hill

- Member of search committee to hire in quantitative methods (Fall 2021)
- Coordinator, Methods and Design Workshop (Fall 2020 - Spring 2022)
- Methods Graduate Student Representative (Fall 2020 - Spring 2022)

Referee:

- *AJPS*
- *Journal of Modern African Studies*
- *APSR*

COMMUNICATING
IN THE PUBLIC
FORUM

"Armenia and the Velvet Revolution: The Merits and Flaws of a Protest-based Civil Society," Foreign Policy Research Institute's *Geopoliticus* Blog, February 19, 2019

“Baltic Energy Sources: Diversifying Away from Russia,” Foreign Policy Research Institute’s *Baltic Bulletin*, June 15, 2017

“Why Did Russia Let Ukraine’s Joan of Arc Go?,” with Julian Nundy and Rashad Mammadov, *News Decoder*, June 9, 2016

“No End to Information War in Ukraine,” *News Decoder*, May 27, 2016

“Lithuania Moves to Bolster Electricity Security,” Foreign Policy’s *Baltic Bulletin*, March 23, 2016

“What on Earth Just Happened in Ukraine?,” Foreign Policy Research Institute’s *Geopoliticus*, February 19, 2016

“The West Needs to Stop Obsessing About Putin,” with Melinda Haring, Foreign Policy Research Institute’s *Geopoliticus*, November 25, 2015

“The human rights situation in Crimea today is deplorable,’ German MP Says,” , Atlantic Council’s *New Atlanticist*, November 30, 2015, translation of speech given by German MP Dr. Christoph Bergner at the Konrad-Adenauer-Stiftung on October 21, 2015

“The Eurasian Economic Union’s growth is not good for democracy in the region,” Foreign Policy Research Institute’s *Geopoliticus*, September 22, 2015

“The West Should Press for Democracy in Western Ukraine, Leave East to Putin for Now,” Foreign Policy Research Institute’s *Geopoliticus*, July 22, 2015

“Remembering Roman,” with Melinda Haring, Atlantic Council’s *New Atlanticist*, May 19, 2015

“Do sanctions on Russia create more problems than they solve?,” Foreign Policy Research Institute’s *Geopoliticus*, March 31, 2015

AWARDS AND SCHOLARSHIPS	Liberal Arts Collective for Digital Collaboration Course Development Grant for Applied Machine Learning (\$25,000)	2023
	Thomas M. Uhlman Summer Research Fellowship (\$3,000)	2022
	Graduate School Summer Research Fellowship (\$5,000)	2021
	Thomas M. Uhlman Summer Research Fellowship (\$3,250)	2020
	Pi Sigma Alpha, Political Science Honors Society	2014
	Spanish Prize, Kenyon College	2014
	Phi Beta Kappa	Fall 2013 Inductee
	Kenyon Honors Scholarship	2010

	National Merit Scholarship	2010
TECHNICAL SKILLS	Statistical computing in R, Python, and Stata, Bayesian inference with Stan, typesetting in L ^A T _E X, version control with Git, linear programming with AMPL	
LANGUAGES	German: Native Speaker Spanish: Functionally Fluent Russian: Advanced Proficiency French: Basic Proficiency	