

Nate Kratzer

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2584 Filson Ave

Louisville, KY 40217

Education

Martin School of Public Policy, University of Kentucky, Lexington, Kentucky

Ph.D in Public Policy and Administration, May 2018

Centre College, Danville, Kentucky

Bachelor of Arts, Magna Cum Laude, May 2010

Majors: Philosophy, Religion Minor: Spanish

Awards and Honors:

- Kentucky Opportunity Fellowship. Academic year 2014-2015.
- Daniel R. Reedy Quality Achievement Fellowship Award. 2013-2016
- Phi Kappa Phi – The United States’ oldest all-discipline honor society. Nov. 2013
- Phi Beta Kappa – The United States’ oldest academic honor society. May 2010
- The Harold J. Gale Philosophy Prize – “Awarded to a senior of high moral character who has done outstanding work in philosophy courses at Centre College.” May 2010
- National Merit Scholar (2006-2010)

Experience

Brown-Forman, Manager Data Science (Louisville, KY) July 2021 - Present

- Manage two data science teams
 - A revenue growth management team working with R, SQL, and Tableau
 - A production team working with Python, SQL, and Tableau
- Manage the tech stack for analytics
- Consult on statistics and do informal education for the organization

Brown-Forman, Lead Data Scientist (Louisville, KY) November 2020 - June 2021

- Lead team in pair programming
- Lead our Revenue Growth Management work
- Continue to work on individual projects

Brown-Forman, Senior Data Scientist (Louisville, KY) January 2018 - October 2020

- Price Elasticity Modeling
 - Improved statistical methodology
 - Refactored code into modular functions within an R package
 - Used elasticity models to help guide response to tariffs
 - Analyzed impact of gift packs on sales

- Forecasting
 - Produced and tested forecasts for distillery production planning process
 - Forecasted White Oak tree population (input into bourbon making)
- Marketing
 - Analyzed the impact of Woodford Reserve's derby sponsorship
- Data Science Practices
 - Set up and instructed team on version control process (Git/GitHub)
 - Created first internal R package
 - Advanced statistical methods used by the team

Brown-Forman, Data Science Analyst (Louisville, KY) November 2017 – December 2018

- Data analysis and insights across multiple areas of the company including production, finance, and marketing.

University of Kentucky, Part-Time Faculty of Public Administration (Louisville, KY)

August 2019 – December 2019, August 2021-December 2021

- Taught 'Introduction to the Public Policy Process' for the M.P.A. and M.P.P. programs

University of Louisville, Part-Time Lecturer (Louisville, KY)

July 2021, November 2021

- Taught 'Ethics and Artificial Intelligence' for the Masters of Science in Business Analytics program.

Louisville Data Studio, Founder (Louisville, KY) May 2017 – November 2017

- Founded a data analysis and visualization LLC specializing in helping local nonprofits interpret, communicate, and use data in their decision-making.
- Founded Louisville's R-user group.

Greater Louisville Project, Data Wizard (Louisville, KY) Nov 2015 - May 2021

- Data analysis and visualization for Greater Louisville Project reports, websites, newspaper forums, and as requested by partner organizations
- Worked with a wide range of civic data partners and regularly presented work at quarterly civic data lunches

Primary Instructor, The Policy Process Summer Bootcamp, University of Kentucky

(Lexington, KY) August 2016

- Taught a weeklong intensive course on the policy process to incoming PhD students.
- The course replaced the prerequisite master's level policy course, but did not award academic credit.

Primary Instructor, Introduction to Political Analysis (PS 372), University of Kentucky

(August 2015 – December 2015)

- Primary instructor for the upper-level undergraduate course on political analysis, covering: philosophy of science; research questions, hypotheses, and theories; data collection; research design; descriptive and inferential statistics; and linear regression.

Research Assistant, Dr. Merl Hackbart, University of Kentucky

(August 2013-August 2014; August 2016 – May 2017)

- Assisted with teaching, administrative, and research duties
- Provided Research for the Volcker Alliance’s Truth and Integrity in State Budgeting Project

Research Assistant, Hazard Mitigation Grant Program, University of Kentucky (August 2012 – May 2013)

- Organized hazard data by county and area development district as part of the preparation of the state hazard mitigation plan.
- Supplemented local hazard data with public data from National Climatic Data Center and U.S. Census Bureau as necessary.

Eco-justice Fellow, National Council of Churches (May 2011 – August 2011)

- Conducted research; attended congressional hearings; tracked legislation; built partnerships with other NGOs and churches; and created educational and worship resources for use by congregations across the country.
- Specialized in the issue of mountaintop removal coal mining.

Publications

Kratzer, Nate. “A Multidimensional Poverty Index for the United States” (2018). *Theses and Dissertations* – Public Policy and Administration. 24.
https://uknowledge.uky.edu/msppa_etds/24/

Kratzer, Nate W. "Coal Mining and Population Loss in Appalachia." *Journal of Appalachian Studies* 21, no. 2 (2015): 173-188.

Conference Presentations

Enterprise Applications of the R Language, 2018. “Bourbon and Code.”

Urban Affairs Association Conference, 2017. Minneapolis, MN. “Designing and Using a Multidimensional Neighborhood Poverty Index”

Midwest Political Science Association Conference, 2016. Junior Scholar Symposia. Chicago, Illinois. “Politics for Cognitive Misers”

Association of Budgeting and Financial Management Conference, 2014. Grand Rapids, Michigan. Co-presented with Alex Combs. “The State of Privatization: Identifying Trends and Determinants of State Government Privatization”

Midwest Public Affairs Conference, 2014. Fort Wayne, Indiana. “Coal Mining and Population Loss”

Other Presentations

Tech Foundations Louisville, 2021. “Ethics and Artificial Intelligence”

Tech Foundations Louisville, 2018. “What is Data Science?”

Federal Reserve Bank of St. Louis, 2018. “The Greater Louisville Project and Multidimensional Poverty in Louisville”

Louisville R-User Group, 2018. “Using Census Microdata.”

City of Santa Monica Office of Civic Wellbeing, 2017. “Louisville: A Focus on Poverty.”

Undergraduate Urban Economics Class at University of Louisville, 2017. “Multidimensional Poverty in Louisville.”

Louisville R-User Group, 2017. “An Introduction to Modeling in R.”

Skills

Computer:

- R, R Shiny, Python, Stata, QGIS, Microsoft Word, Excel, Powerpoint, Inkscape, WordPress, Google Apps, Facebook, Twitter.

Language:

- Spanish - Conversational

Public Speaking:

- Policy Mentor for Henry Clay Student Congress, 2016, 2017. Coached undergraduate students from across the U.S. in developing two separate immigration policies, working together to reach a compromise, and presenting the initial policy proposals and final compromise. 2016
- Coached the University of Kentucky’s policy solutions challenge team to first place regionally and second place nationally in the national policy solutions challenge case competition. 2015.
- Two-time National Qualifier in Lincoln-Douglas Debate, placed 29th at Nationals. 2006.

Volunteer Work

Louisville R-User Group Organizer

Code Louisville Mentor. Python. (January 2018, May 2018, Sept 2018, January 2019, May 2019, Jan 2021 sessions) Tableau (Sept 2020).

University of Louisville MSBA Program Board Member

Louisville Resilience Steering Committee Member

International Experience

Studied Abroad in Mexico (2007), Honduras (2007), Nicaragua (2009), Costa Rica (2010), and El Salvador (2011).