

Victor G. Hugg, PhD

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🏠 Chicago, Illinois

Skills

- **Languages:** R, Python, SQL, Markdown, HTML/CSS
- **Tools:** RStudio, tidyverse, Stata, Linux, Windows, Word, Excel, PowerPoint, Access, L^AT_EX, exposure to JupyterLab, **pandas**, and **scikit-learn**.
- **Techniques:** Data cleaning (**vroom**, **janitor**, **dplyr**, **tidyr**, etc.), visualization (**ggplot2**), regression analysis (OLS, logistic, panel, HLM), social network analysis (**statnet**), exposure to machine learning (e.g., **xgboost**).

Projects

Personality Traits and Citizen Participation

- Employed Stata, logistic regression, and personality trait data sourced from the American National Election Studies (ANES) to predict the likelihood of citizen engagement with local government.
- Analysis published in the *Journal of Behavioral Public Administration* (Hugg and LeRoux, 2019).

Cleaning and Merging Federal Payroll Data

- Using R and the tidyverse, simplified scholarly research of federal government payroll data from 1973 – 2017 by transforming 700 text files (33.8 GB) into a single SQLite file containing tables with 170 million+ rows.

Interlocal Agreement Database

- Employed R and Selenium to scrape, clean, and merge longitudinal data from multiple government sources.
- Data includes 50 variables and captures 20,000+ intergovernmental agreements and 1,000+ local governments.
- Database played fundamental role in the formation of UIC's Networks & Governance Lab.

Modeling Public Service Networks

- Estimated hierarchical linear models (**lme4**) to empirically test theorized relationships between types of public service functions and interlocal agreement network structures.
- Analysis published in *Urban Affairs Review* (Hugg, 2019).

Analyzing School District Performance

- Employed R, panel linear models (**plm**) with fixed effects, and social network analysis to predict student-level academic and discipline performance in 333 public school districts across the state of Iowa from 1993 – 2017.
- Visualized network, distributional, and geographical data via R's **statnet**, **ggplot2**, and **sf** packages.
- Automated regression table output with L^AT_EX.

Education

- PhD, Public Administration May 2020
University of Illinois at Chicago
- MA, Political Science December 2015
University of Illinois at Urbana-Champaign
- BA, Philosophy + BA, Political Science May 2012
Iowa State University

Work Experience

Research Assistant + Instructor UIUC, UIC
Champaign, IL; Chicago, IL August 2014 – May 2020

- Provided MPA + PhD students with R coding guidance.
- Assisted faculty with new and ongoing research projects.
- Lectured, held office hours, and graded assignments/exams for 300+ undergraduate students enrolled in 4 courses across 9 semesters.

Customer Service Technician Aureon/INS
Des Moines, IA October 2012 – March 2014

- Provided over-the-phone technical support on a wide range of issues for customers (7,000+ calls).
- Specialized in troubleshooting problems related to Internet connectivity (DSL/cable/fiber-to-the-home) and email client configuration.

Field Organizer Obama for America
Ottumwa, IA May 2012 – August 2012

- Established and independently operated the campaign field office for all of Wapello County (436 mile² area).
- Recruited, trained, and managed volunteers that organized their communities and neighborhoods into teams that registered, persuaded, and motivated voters.

Awards

- Department of Public Administration Scholar Award
University of Illinois at Chicago Fall 2016
- Teachers Ranked As Excellent By Their Students
University of Illinois at Urbana-Champaign Fall 2014
- Department of Political Science “Full Funding” Award
University of Illinois at Urbana-Champaign Fall 2014

References

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|---------------------------------|---------------------------------|
| Dr. <u>Tim Johnson</u> | NORC Senior Fellow |
| Dr. <u>Michael D. Siciliano</u> | Professor, Advisor |
| Dr. <u>Jered B. Carr</u> | Professor, Department Head |
| Dr. <u>Kelly LeRoux</u> | Professor, PhD Program Director |