

# 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<sup>A</sup>T<sub>E</sub>X, 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

### 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 (**p1m**) 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<sup>A</sup>T<sub>E</sub>X.

### 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](#)).

## 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 operated the campaign field office for all of Wapello County (436 mile<sup>2</sup> 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. <a href="#">Tim Johnson</a>          | NORC Senior Fellow              |
| Dr. <a href="#">Michael D. Siciliano</a> | Professor, Advisor              |
| Dr. <a href="#">Jered B. Carr</a>        | Professor, Department Head      |
| Dr. <a href="#">Kelly LeRoux</a>         | Professor, PhD Program Director |