

TIMOTHY RUEL

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1630 West Balmoral Avenue, Apt 2B, Chicago, IL 60640

EDUCATION

Northwestern University

Ph.D. Candidate in Statistics

Master of Science in Statistics

Evanston, IL

Expected Jun 2024

Sep 2019 - Mar 2022

University of Illinois at Urbana-Champaign

Bachelor of Science in Applied Mathematics and Statistics

Champaign, IL

Aug 2014 - May 2018

RELEVANT EXPERIENCE

The STEPP Center

Research Assistant

Institute for Policy Research, Northwestern University

Apr 2019 - Present

- Programmed an R package version of the webtool thegeneralizer.org which helps K-12 researchers design sample recruitment plans that improve generalizability of their studies and determine how well they generalize to other populations
- Evaluated methods and practices of 8 research clearinghouses and documented best practices and areas of improvement for each one
- Aided in the administration of two professional development workshops for education researchers funded by the Institute of Education Sciences and the National Science Foundation

Faculty Senate Salary and Budget Committee

Data Analyst

Northwestern University

May 2022 - Jun 2022

- Performed the cleaning and data wrangling of a dataset containing information on the salaries of faculty members at Northwestern University as part of a consulting project for the Northwestern Faculty Senate Salary and Benefits Committee
- Created plots and tables illustrating the faculty's salaries and percent raises during the previous 8 years in addition to their projected losses over the next 40 years as a result of a six month freeze in retirement benefits due to COVID-19 spending cuts

Department of Sociology

Research Assistant

Georgia State University

Jun 2017 - Aug 2017

- Managed cleaning and preprocessing of a dataset with over 50,000 observations documenting infrastructure and environment of low-income Atlanta neighborhoods
- Conducted a principal component analysis to reduce dimensionality of dataset and identify neighborhood characteristics most strongly associated with danger and incivility

TEACHING EXPERIENCE

Department of Statistics

Teaching Assistant

Northwestern University

Sep 2020 - Present

- Supervised practice sessions aimed at giving students hands-on experience with concepts and skills fundamental to the course curriculum at both the undergraduate and graduate level
- Contributed to the development of appropriate teaching materials to ensure content and methods of delivery met learning objectives
- Assessed the knowledge and progress of students using a variety of techniques and provided effective, timely, and appropriate feedback to students in support of their learning

HONORS

Data Science Initiative

Data Science Fellow

Northwestern Institute on Complex Systems

Awarded Sep 2019

PROFESSIONAL DEVELOPMENT

edX, Inc.

Introduction to Computer Science and Programming using Python

MITx Online Course

Completed Jun 2018

PROGRAMMING SKILLS

R (advanced), Python (intermediate), SQL (intermediate), SAS (intermediate)