

# 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

*Bachelor of Science in Applied Mathematics and Statistics*

Urbana-Champaign, IL

Aug 2014 - May 2018

## EXPERIENCE

### The STEPP Center

*Research Assistant*

Institute for Policy Research, Northwestern University

Apr 2019 - Present

- Evaluated methods and practices of 8 research clearinghouses and wrote report documenting best practices and areas of improvement for each one
- Provided assistance in the administration of two professional development workshops for education researchers funded by the Institute of Education Sciences and the National Science Foundation, respectively

### Division of Intercollegiate Athletics

*Mathematics Tutor*

University of Illinois

Sep 2017 - May 2018

- Tutored 10 students taking college classes in calculus and linear algebra
- Formulated lesson plans to give students practice with key concepts and keep them on track with assignments

### Georgia State University

*Research Assistant*

Atlanta, GA

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

## HONORS

### Data Science Initiative

*Data Science Fellow*

Northwestern Institute on Complex Systems

Awarded Sep 2019

## PROJECTS

### The "generalizeR" R Package

Jul 2020 - Present

- Programmed an R package version of the webtool [thegeneralizer.org](http://thegeneralizer.org) which helps K-12 researchers design sample recruitment plans that improve generalizability of their studies and report when they may or may not generalize well to other populations

### Visualization of NU Faculty Retirement Benefits Loss during COVID-19

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

## PROFESSIONAL DEVELOPMENT

### edX, Inc.

*Introduction to Computer Science and Programming using Python*

MITx Online Course

Completed Jun 2018

## PROGRAMMING SKILLS

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