

# Richard Paquin Morel

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🌐 ramorel 🐙 ramorel.github.io

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**Programs & Pckages:** R: Tidyverse, ggplot2, Shiny; Python: pandas, numpy, scikit-learn; bits of SQL; Stata  
**Analytic toolkit:** Statistical modeling: regression, machine learning, network analysis; Research design: observational, quasi-experimental, mixed-methods; NLP, exploratory data analysis, data visualization

## Professional Experience

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Learning Research and Development Center, University of Pittsburgh • Pittsburgh, PA 2019-Present

### Post-doctoral Research Associate

- Conduct statistical analysis on survey data for multi-site research project
- Design automated reports in R markdown and Shiny for stakeholders on \$150 million research grant
- Derive insights from data in clear, non-technical language
- Follow best practices for reproducible research and version control

Northwestern University • Evanston, IL 2018-2019

### R Bootcamp Instructor

- Developed and delivered content on programming in R for two cohorts of Masters in Analytics students
- Incorporated best practices with version control (Git) and Rmarkdown
- Provided real time feedback to students to support comprehension
- Received outstanding reviews (average 4.6 out of 5) from students on evaluations

## Research Experience

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Northwestern University • Evanston, IL 2013-2019

### Dissertation Research

- Implemented econometric designs to identify the causal effect of public policies [link]
- Wrangled real world data from multiple sources—APIs, census, administrative data
- Applied NLP techniques to process and analyze text data in R and Python
- Received Outstanding Dissertation Award from the Politics of Education Association

### Pre-Doctoral Research Fellow, Multidisciplinary Program in Education Sciences

- Applied methods for statistical inference using network data [link]
- Visualized network data in R
- Implemented quasi-experimental research designs (fuzzy regression discontinuity)
- Created clear reports of analysis in approachable language for technical and non-technical audiences

## Education

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Ph.D., Human Development and Social Policy, Northwestern University 2013-2019

**Relevant coursework:** Probability, Regression Analysis, Empirical Tools for Causal Quantitative Analysis, Designs for Descriptive Causal Research in Field Settings, Economics of Social Policy, Network Analysis

**Professional Development:** DataCamp - Data Scientist with Python Career Track (Summer 2017), Network Analysis: Statistical Methods (Summer workshop at the University of Michigan, Summer 2015)