

Richard Paquin Morel

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Programs & Packages: R: Tidyverse, ggplot2, Shiny, igraph, & more; Python: Pandas, NumPy/SciPy, Scikit-learn; bits of SQL; Stata

Analytic toolkit: Statistical modeling: regression, classification, machine learning, network analysis; Research design: causal inference, quasi-experimental design, mixed-method designs; NLP, content analysis, exploratory data analysis, data visualization

Professional Experience

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 Rmarkdown 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

Northwestern University • Evanston, IL 2013-2019

Dissertation Research

- Implemented econometric designs to identify the causal effect of public policies
- Wrangled real world data from multiple sources—APIs, census data, 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
- 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

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)