Nicholas Vietto

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Professional Experience

QUANTITATIVE SOCIAL SCIENTIST

University of Nebraska - Omaha

2020-Present
- Collected data from 100+ participants using an experimental design that involved surveys, measurements of the autonomic nervous system (e.g., heart rate), and behavioral observations.
- Planned, scheduled, and assigned project duties to a team of graduate-level researchers.
- Performed data cleaning, wrangling, preprocessing, modeling, and analysis for various projects in R.
- Wrote and collaborated on several studies for scientific publishing and conferences.

TEACHING FELLOW

University of Nebraska - Omaha

2020-Present
- Designed and instructed multiple courses centered on quantitative subjects, encompassing topics such as statistics, research methods, and experimental design.
- Made use of data-visualization tools to conduct lectures and create course material with RMarkdown/Quarto.

RESEARCHER

Wayne State University

2018-2020
- Planned and executed analyses for a project that entailed evaluating the impacts of environmental adversity, genetic polymorphism, and behavioral outcomes.

PROFESSIONAL DEVELOPMENT AND SPECIALIZED QUANTITATIVE TRAINING

- FFCWS Summer Data Workshop Attendee, Columbia University (2023)
- Machine Learning: Uncovering Hidden Structures in Data, ICPSR Summer Program at University of Michigan (2023)
- Longitundinal Structural Equation Modeling, University of Nebraska-Lincoln (2022)
- Structural Equation Modeling, University of Nebraska-Lincoln (2022)
- Mixed Models, University of Nebraska-Omaha (2021)

References

- Professional references are available upon request

Education

UNIVERSITY OF NEBRASKA-OMAHA

Ph.D. Criminology and Criminal Justice
- 2020-Present
- Omaha, Nebraska
- Doctoral Candidacy, May 2023

WAYNE STATE UNIVERSITY

M.S. Criminal Justice
- 2020
- Detroit, Michigan

OAKLAND UNIVERSITY

B.A. Biological Science
- 2016
- Rochester Hills, Michigan

Skills

Programming Languages
- R (3+ years)
- SQL (introductory)
- Python (introductory)

Statistics
- Machine Learning (Caret & Tidy Models)
- Predictive Modeling
- Causal Inference
- Experimental Design

Technical
- Data Visualization (ggplot2)
- RMarkdown/Quarto
- Data Cleaning
- Data Wrangling/Management
- Package Development (R)
- Mplus (2 years)
- Microsoft Office Suite