

Nicholas Vietto

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Work Experience

University of Nebraska-Omaha

PhD Candidate

School of Criminology and Criminal Justice

August 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.
- Conducted data curation, wrangling, and preprocessing for [statistical analyses in R](#) using both causal inference and predictive models.
- Developed a new data visualization technique to examine and plot interaction/moderation models, enhancing interpretability for two [publications](#).
- Wrote and collaborated on several [studies](#) for scientific publishing and conferences.

University of Nebraska-Omaha

Graduate Teaching Assistant

School of Criminology and Criminal Justice

August 2020 - Present

- Instructed and developed multiple undergraduate courses centered on quantitative subjects, including statistics and research methods using [Quarto](#) and [RMarkdown](#).

Wayne State University

Researcher

Department of Criminology and Criminal Justice

August 2019 - August 2020

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

Education

University of Nebraska-Omaha

Ph.D. Criminology and Criminal Justice

Expected Spring 2025

Dissertation: Classifying Delinquency Risk in the Future of Families and Child Well-Being Study: A Data-Driven Approach Using a Feed-Forward Neural Network

Wayne State University

M.S. Criminal Justice

2020

Oakland University

B.A. Biological Science

2016

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)
- Longitudinal Structural Equation Modeling, University of Nebraska- Lincoln (2022)
- Structural Equation Modeling, University of Nebraska-Lincoln (2022)
- Mixed Models, University of Nebraska-Omaha (2021)

Skills

- **Statistical Expertise:** Machine Learning (Caret & tidymodels), Predictive Modeling, Causal Inference, Experimental Design
- **Software:** Proficient in R, [HTML/CSS](#), [LaTeX](#), git; familiar with Python, SQL
- **Technical Skills:** [Data Visualization](#), [Package Development \(R\)](#), [Workflows in Quarto](#), Dashboards, Data Wrangling