

## Claudia Clinchard

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Roanoke, Virginia – (402)310-8334

Researcher and data scientist with 7+ years of experience turning complex data (4,000+ variables) into actionable insights. Skilled in R, Python, Tableau, SQL, JMP, SPSS, and Mplus for predictive modeling, machine learning, and data storytelling.

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## Experience

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Statistical Collaborator | Statistical Applications & Innovation Group, Virginia Tech, Blacksburg, Virginia

*May 2024 – Present*

- Collaborated with cross-functional teams to transform complex datasets into actionable insights that informed data-driven strategies
- Built predictive models (logistic regression, GLMM) to identify key drivers of outcomes
- Collaborated on the design and teaching of short course workshops for over 20+ students and researchers to upskill teams in statistical modeling
- Partnered with clients to define analytic questions, streamline data processes, and deliver actionable findings

Research Assistant and Project Manager | Virginia Tech, Blacksburg, Virginia

*July 2021 – Present*

- Cleaned and structured large-scale datasets (4,000+ variables), improving analysis efficiency by 50%
- Applied advanced analytical techniques (e.g., structural equation modeling, machine learning, and regression analyses) to uncover predictive patterns
- Supervised and mentored a team of 10+ researchers in data management, statistical modeling, and workflow optimization
- Authored 12 peer-reviewed publications (5 as first author), and presented at 4 national conferences (30+ attendees)

Freelancer | Remote, United States

*January 2025 – Present*

- Advised clients on statistical modeling in R and provided feedback on research writing

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## Education

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**Virginia Tech**, Blacksburg, Virginia

Ph.D., Psychology

*Expected May 2026*

M.A., Data Analysis and Applied Statistics

*Expected May 2026*

M.S., Psychology

*April 2023***University of Nebraska-Lincoln**, Lincoln, Nebraska

B.A., Psychology

*May 2021*

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## Skills

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- **Programming & Data Tools:** R, Python (pandas, NumPy, scikit-learn), SQL (MySQL and SQLite), Git/GitHub, JMP, SPSS, and Mplus
- **Data Visualization:** Tableau, ggplot2, Power BI, Excel,
- **Modeling:** Regression, GLM, GLMM, SEM, GAM, decision trees, K-means, PCA
- **Other:** Workflow automation, psychometrics, RMarkdown, GIS/GeoPandas

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## Selected Projects

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- Automated data pipelines in R, reducing preprocessing time by 80%
- Longitudinal modeling of 10 years of data via SEM
- Multi-wave dataset integration using advanced imputation (FIML)
- Dimension reduction to extract latent behavioral constructs
- Predictive modeling (student college placement, sales forecasting)
- Behavioral time series analysis to detect and predict developmental patterns