Brady M. Chisholm

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Professional Summary

Early-career researcher with experience in neuroscience, data science, and computational modeling. Skilled in EEG data collection, statistical modeling (GAM, ICA, regression), and programming in Python, MATLAB, and R. Seeking experience in industry research and data science roles with opportunities for innovation and professional growth towards graduate school.

Education

University of Minnesota, Minneapolis, MN Sep 2023 – Aug 2025
Bachelor of Science in Psychology
Relevant Coursework: Regression and Correlated Data, Calculus I, Biopsychology

Gustavus Adolphus College, St. Peter, MN Sep 2022 – May 2023
Research apprenticeship, grant-funded projects; Varsity Swim & Dive

Research Experience

Researcher / Research Assistant, UMN Neuroscience Department Jan 2025 – Present
Cognitive and Systems Neuroscience Lab (Dr. Jean-Paul Noel)

- Designed and implement studies aimed at decoding decision making from neural activity
- Collect EEG data, implement EEG methods, analyze EEG data
- Applied computational analysis to large-scale neural datasets

Research Assistant, UMN Psychology Department Dec 2023 – Aug 2025
Auditory Perception and Cognition Lab (Dr. Andrew Oxenham & Dr. Juraj Mesik)

- Designed and analyzed experiments using EEG and pupillometry to study listening effort
- Built GAM and regression models to study auditory perception and fatigue
- Co-authored publication and prepared ASA 2025 presentation

Research Assistant, UMN Ecology, Evolution, and Behavior Jun 2024 – Aug 2024
Animal Communication Lab (Dr. Mark Bee)

- Assisted in experiments with *Hyla* species; supported craniotomy procedures
- Collected and analyzed behavioral data

Publications and Posters

Analysis of Pupillometry Data (2024) - Developed GAM models to examine fatigue effects in listening effort studies

The CodeR Sessions (2024–Present) - Created tutorials and open-source materials to teach R and data science methods

Awards & Grants

Undergraduate Research Opportunities Project Grant ($2,100, 2024)
Dean's First-Year Research and Academics Scholarship ($900, 2024)
Presidential Research Grant, Gustavus Adolphus College ($1,500, 2023)

Technical Skills

Programming: Python, R, MATLAB, HTML, Git/GitHub
Analysis: EEG, ICA, GAM, regression, ANOVA, data visualization
Research: Experimental design, animal handling, data collection