

Maia A. Czerwonka

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Education

University of Washington, Seattle, WA

Aug 2022 - Expected June 2026

B.S. in Psychology and Statistics: Data Science (GPA: 3.75)

- o Dean's List - *Yearly*: 2023, 2024; *Quarterly*: 2022 (Aut), 2023 (Wint, Spr, Aut), 2024 (Wint, Spr, Aut), 2025 (Spr, Aut)
- o Psychology Honors Program (2024-2026)
- o Mary Gates Research Scholar (2025)
- o Best Research Proposal Guthrie Prize Winner (2025)
- o Statistics Directed Reading Project- Multiple Testing in Genetic Research (Aut 2025)

Work Experience

Research Assistant

October 2025

Exponent Inc., Bellevue, WA, USA

- o Supported an applied research project for a leading technology client, assisting in study setup, participant coordination, and data collection.
- o Optimized research environments to maintain standardized testing conditions and ensure participant safety.
- o Managed participant data using specialized data collection and analysis software.
- o Collaborated with senior researchers to streamline project execution and ensure high-quality data integration.

Data Science Intern

June 2025- August 2025

AweXome Ray, Anyang, Gyeonggi-do, South Korea

- o Built an interactive desktop app automating air quality analysis across three sensor types, with plotting and export tools.
- o Analyzed air quality data pre/post product installation at military shooting ranges, generating statistical evidence supporting sales to the Korean military.
- o Co-authored a research abstract submitted to a conference, contributing key edits on scientific writing and structure.
- o Digitized six years of conference materials into a searchable archive, improving companywide technical document access.
- o Partnered with engineers on heat dissipation, 3D printing, and operations support (inventory and equipment tracking).

Student Researcher

Sept 2023 – Present

Cognition and Cortical Dynamics Laboratory, University of Washington

- o Designed and completed an independent project on attentional biases in decision making under conflict in a sample of over 200 participants.
- o Developed data analysis and visualization pipelines in R and Python.
- o Disseminated findings in two institution-wide research symposia and delivered two invited lab talks.

Research Assistant

Oct 2022 - June 2024

Cognition and Cortical Dynamics Laboratory, University of Washington

- o Led behavioral data collection for three multi-session studies on individual differences in cognitive abilities and learning.
- o Utilized EEG and fMRI to investigate neural system relations to behavior.
- o Coordinated session scheduling, onboarded new research assistants, and conducted literature reviews to identify research gaps, leading to the projects' progression.

Publications, Presentations, & Invited Talks

Publications

Czerwonka, M., Mottarella, M., & Prat, C.S. (in prep). To Be or Not to Be Biased: Investigating the Factors That Determine Attentional Bias and the Differences in Conflict Perception Between Neutral and Biased Attenders Using Drift Diffusion Modeling.

Presentations

Czerwonka, M., Mottarella, M., & Prat, C. S. (November 2025). Investigating Individual Differences in Decision Strategy. Poster presentation given at Psychonomic Society 66th Annual Meeting, Denver, CO.

Czerwonka, M., Mottarella, M., & Prat, C. S. (May 2025). Exploring Individual Differences in Decision Strategy. Poster presentation given at Mary Gates Symposium, University of Washington.

Czerwonka, M., Mottarella, M., & Prat, C. S. (May 2024). Visual, Verbal and Balanced Processing Styles: Exploring the Effects of Attentional Biases on Decision Making Under Conflict. Poster presentation given at Mary Gates Symposium, University of Washington.

Invited Talks

Czerwonka, M. (October 2024). Determinants of Attentional Bias: Investigating the Effects of Spatial Bias, Strategy Changing and Language Background on Information Processing Style and Conflict Perception. Invited Talk at Cognition and Cortical Dynamics Laboratory Meeting, University of Washington.

Czerwonka, M. (February 2024) Visual, Verbal and Balanced Processing Styles: Research Background and Proposal. Invited Talk at Cognition and Cortical Dynamics Laboratory Meeting, University of Washington.

Skills

- o Programming: R (Rmarkdown, Tidyverse, ggplot2), Python (Jupyter Notebook, matplotlib), SQL (SQLite), Psytokit
- o Data Analysis/ Visualization/ Quantitative methods
- o Experimental Design: Working with human subjects, inferential statistics, linear regression
- o Foreign Languages: English (Native), Polish (Native), Korean (Proficient), Spanish (Proficient)

Licenses and Certifications

MRI Level 2 Safety Trained Personnel

CITI Human Subjects Learners

- o Credential ID 52410553