

Maia A. Czerwonka

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Education

B.S in Statistics, University of Washington, Seattle, WA

Aug 2022 - Expected June 2026

B.S in Psychology (Double Major)

- GPA: 3.75, Dean's List (2023-2026)
- Mary Gates Research Scholar (2025)
- Best Research Proposal Guthrie Prize Winner (2025)
- Statistics Directed Reading Project- Multiple Testing in Genetic Research (2025)
- Psychology Honors Program (2024-2026)

Work Experience

Research Assistant, Exponent Inc., Bellevue WA.

October 2025

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

Data Science Intern, AweXome Ray, Anyang, Gyeonggi-do, South Korea

June 2025- August 2025

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

Student Researcher, Cognition and Cortical Dynamics Laboratory, University of Washington **Sept 2023 – Present**

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

Research Assistant, Cognition and Cortical Dynamics Laboratory, University of Washington **Oct 2022 - June 2024**

- Led behavioral data collection for three multi-session studies on individual differences in cognitive abilities and learning.
- Utilized EEG and fMRI to investigate neural system relations to behavior.
- 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

Han, W, et al. (October 2025). **Advanced Airborne Contaminant Removal Using Photo-Ionization With CNT-Based Soft X-Ray Technology** [Abstract]. Asian Symposium On Contamination Control. Seoul, South Korea.

Czerwonka, M., Mottarella, M., & Prat, C.S. **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.** (in prep.)

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

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

Licenses and Certifications

- MRI Level 2 Safety Trained Personnel
- CITI Human Subjects Learners, Credential ID 52410553