

Kira Wegner-Clemens

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Education

PhD, Cognitive Neuroscience, George Washington University May 2024

- *Relevant coursework*: Machine Learning, Statistical Modeling, Multivariate Data

BA, Cognitive Science, Rice University

May 2017

Technical Skills

Programming Languages: Proficient in Python, Matlab, R; Familiar with Javascript

Statistical Techniques: regression, mixed effect models, classification, PCA

Data Visualization: Proficient with ggplot2, matplotlib

Projects

Quantification of semantic similarity with online data collection tools

George Washington University

- Implemented A/B testing (2AFC) paradigm to quantify stimulus similarity
- Performed data cleaning and analysis of 40000+ judgments from online participants
- Statistically compare human derived judgments to text derived similarity models

Investigation of the role of sound in human visual attention

George Washington University

- Designed series of tasks in Javascript examining role of sound on visual search
- Analyzed data from 500+ participants with regression and mixed effect models to predict attention allocation in multisensory environments

Data driven quantification of eye movement behavior

Baylor College of Medicine

- Preprocessed and visualized eye tracker time series data with Matlab pipeline
- Developed principal components to identify variability of gaze behavior

Experience

Graduate Researcher, George Washington University Aug 2019 - Present

- Set schedules & taught statistics and coding tutorials for undergraduate researchers
- Designed, coded, analyzed data for behavioral experiments
- Effectively communicated outcomes in international conferences and publications

Research Coordinator, Baylor College of Medicine July 2017 - July 2019

- Developed experiments, wrote code, analyzed data for eye tracking projects

Awards: Walk Dissertation Award (2024); NIH F31 National Research Service Award (2022); Rice Distinction in Research (2017); State Department Critical Language Scholarship (2015)

Additional Training: Kavli Summer Institute for Cognitive Neuroscience (2022); Neuromatch Academy for Computational Neuroscience (2020)