

Benjamin P. Richardson, Ph.D.

Experimental Psychologist | Cognitive Science | User Research

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📍 Redmond, WA



SUMMARY

Accomplished Experimental Psychologist with over fifteen years of experience scientifically examining the interaction of action and perception. High attention to detail and advanced knowledge of inferential statistics. Skilled at using experimental design and data science including machine learning to show how the brain processes information and inform data driven decisions and product design.

EXPERIENCE

Lead Human Factors Research Scientist

[Experis at Microsoft](#)

📅 11/2023 – Present 📍 Redmond, WA

- Organize and execute studies, collect and analyze data, then present the findings to stakeholders.
- Translate findings into published results for future replication and reference.
- Manage a team of researchers who conduct user experience studies and biomechanical engineering investigations.
- Provide data to inform data driven decisions and product design.

Senior User Experience Study Collaborator

[Tailored Management at Meta Reality Labs Research](#)

📅 10/2021 – 11/2023 📍 Redmond, WA

- Managed human subject research studies including study design, implementation and publication of results.
- Authored over 60 protocols including completion of ethical reviews and study approvals working closely with legal teams.
- Managed a group of 12 research assistants who conducted studies.
- Analyzed data and built reports regarding data collection efficiency and expenses.

Lead Doctoral Student Scientist

[The Attention, Perception and Performance Lab at WSU](#)

📅 08/2017 – 12/2022 📍 Pullman, WA

- Organized human subjects studies investigating how the brain resolves confusion between simultaneously activated actions.
- Conducted studies investigating
- Managed electroencephalography lab and conducted seminars instructing other graduate students and faculty on how to use EEG for research.
- Published my research in peer reviewed academic journals.

Senior Data Analyst

[The Office of Institutional Effectiveness at CWU](#)

📅 05/2016 – 08/2017 📍 Ellensburg, WA

- Managed institutional data and fulfilled ad hoc data requests for faculty and staff.

EDUCATION

Doctor of Philosophy in Experimental Psychology

[Washington State University](#)

📅 08/2017 – 12/2022 📍 Pullman, WA

Master's of Science in Experimental Psychology

[Central Washington University](#)

📅 08/2013 – 06/2015 📍 Ellensburg, WA

Bachelor's of Arts and Science in Experimental Psychology

[Western Washington University](#)

📅 08/2006 – 06/2009 📍 Bellingham, WA

ACHIEVEMENTS

🏆 **Peer Reviewed Publications in Leading Academic Journals**
Lead author and co-author on multiple peer reviewed journal articles with high impact co-authors. Cited over 25 times on GoogleScholar.

🎤 **Conference Speaker and Presenter**
Designed posters, handout materials, talks and presentations and presented recent lab research at professional conferences in the US and internationally. Represented my lab at various workshops and bootcamps and organized teaching sessions for new information.

📄 **Reviewer for Peer Reviewed Journal**
Invited reviewer for two peer reviewed articles for the journal Attention, Perception and Psychophysics. Provided important feedback that improved quality of publication.

💰 **Research Grant Recipient**
Secured over \$25,000 in multiple successful grants that provided resources for improving lab equipment and travel to multiple professional conferences.

SKILLS

Experimental Design Inferential Statistics Scientific Writing Statistical Modeling Hazard Rates Predictive Modeling R Python SQL MATLAB PsychoPy Machine Learning Neural Networks EEG/EMG

COURSES

[Advanced EEG Signal Processing Bootcamp](#)

Attended a weeklong bootcamp at University of California San Diego on advanced signal processing of electrophysiology data using EEGLAB and MATLAB.

[Cognitive Control Workshop](#)

Remotely attended a weeklong workshop hosted by psychology various faculty from the University of Würzburg and other world experts on cognitive control. Presented my research and provided insight on others research.

[Code Academy Certifications – Data Science](#)

Completed a various training courses in advanced data science techniques including machine learning and artificial intelligence.

Passions

📖 **Psychology Literature and Research**
Dedicated to continuous learning and absorbing the latest findings in action control, psychology, psychophysics and memory literature to inform and inspire research efforts.

🗣️ **Language Acquisition**
Spanish – conversational in speaking, listening and reading.
German – intermediate in speaking, listening and reading.
Italian – Beginner in speaking, listening and reading.

🔗 **Data Science and Analysis**
Currently working on designing a packages in R and Python that visualize probability distributions for response times and electrophysiology data.