

CURRICULUM VITA

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EDUCATION

Ph.D.	Experimental Psychology (2022) Washington State University, Pullman, Washington
M.S.	Experimental Psychology (2015) Central Washington University, Ellensburg, Washington
B.A.	Experimental Psychology (2009) Western Washington University, Bellingham, Washington

PROFESSIONAL POSITIONS

2023 - Current	Lead Human Factors Research Scientist Microsoft Human Factors Research via Experis, Redmond, Washington
2021 – 2023	Senior Research Collaborator Meta Reality Labs Research via Tailored Management, Redmond, Washington
2017-2021	Cognitive Scientist / Experimental Psychologist Washington State University, Pullman, Washington
2017-2021	Psychology Instructor Washington State University, Pullman, Washington
2015-2017	Data Analyst III Central Washington University, Ellensburg, Washington
2015	Psychology Instructor Central Washington University, Des Moines, Washington

ADDITIONAL POSITIONS

2017-2022	Research Associate, Attention, Perception and Performance Laboratory Washington State University, Pullman, Washington
2017	Teaching Assistant, Statistics in Psychology Washington State University, Pullman, Washington
2013-2015	Research Associate, Brain Dynamics and Cognitive Neuroscience Laboratory Central Washington University, Ellensburg, Washington
2007-2009	Research Assistant, Human Cognition and Neural Dynamics Laboratory Western Washington University, Bellingham, Washington

AWARDS, HONORS, AND FELLOWSHIPS

2021	WSU James F. Adams Endowment Grant - \$2,000
2021	WSU Graduate and Professional Student Association Dissertation Award - \$500
2020	Psychonomic Society Graduate Conference Award - \$1,000
2020	Marchionne Summer Research Fellowship Grant - \$5,000
2018	Marchionne Summer Research Fellowship Grant - \$5,000
2017	Washington State University Travel Grant - \$1,000
2015	Outstanding Graduate Student of the Year, Central Washington University

RESEARCH EXPERIENCE

Fall 2023 – Current	Lead Human Factors Research Scientist in the Microsoft Human Factors Lab via Experis, Redmond, Washington
Spring 2021 – Fall 2023	Research Collaborator at Meta Reality Labs Research, Redmond, Washington
Fall 2017-2022	Graduate Student Lab Manager for Dr. Lisa Fournier's Attention, Perception and Performance Behavioral Lab Washington State University, Pullman, Washington
Fall 2017-2022	Graduate Student Lab Manager for Dr. Lisa Fournier's Adult Human Electrophysiology Lab Washington State University, Pullman, Washington
Fall 2013-Summer 2015	Graduate Student Lab Manager for Dr. Ralf Greenwald's Brain Dynamics and Cognitive Neuroscience Lab Central Washington University, Ellensburg, Washington
Summer 2009-Spring 2012	Undergraduate Lab Assistant for Dr. Kelly Jantzen's Human Cognition and Neural Dynamics Lab Western Washington University, Bellingham, Washington

TECHNICAL/PROGRAMMING EXPERIENCE

R	Data analysis and visualization.
Python/PsychoPy	Experiment design, data collection, data analysis
MATLAB	Analyzing and visualization of electrophysiological data.
E-Prime	Experiment design, data collection, data analysis
BioSemi	Electrophysiology data collection.
Neuroscan	Electrophysiology data collection.
SQL	Databases joining and student admission data analysis.
Microsoft Excel	Data shaping and visualization.
Microsoft Access	Database joining and organization.
Microsoft PowerPoint	Data visualization, presentation design.

PEER REVIEWED JOURNAL PUBLICATIONS

- 1.) Fournier, L. R., **Richardson, B. P.**, & Logan, G. D. (2022). Partial Repetition Costs are Reduced but not Eliminated with Practice. *Journal of Cognition*, 5(1-17). Doi: 10.5334/joc.230
- 2.) Fournier, L. R. & **Richardson, B.**, (2021). Partial repetition between action plans delays responses to ideomotor compatible stimuli. *Psychological Research*, 1-15. Doi: 10.1007/s00426-021-01491-9
- 3.) **Richardson, B.**, Pfister, R., & Fournier, L. R. (2020). Free-choice and forced-choice actions: Shared representations and conservation of cognitive effort. *Attention, Perception, & Psychophysics*, 82(5), 2516-2530. Doi: 10.3757/s13414-020-01986-4
- 4.) Jantzen, K. J., Seifert, M., **Richardson, B.**, Behmer, L. P., Odell, C., Tripp, A., & Symons, L. A. (2012). Dorsal stream activity and connectivity associated with action priming of ambiguous apparent motion. *NeuroImage*, 63(2), 687-697. Doi: 10.1016/j.neuroimage.2012.07.010

MANUSCRIPTS IN PREPARATION

- 1.) **Richardson, B.**, Lappin, J. & Fournier, L.R. Interrupting actions: Effects of shared action components and training on temporal response process

PUBLISHED ABSTRACTS/SUPPLEMENTS

- 1.) **Richardson, B.**, & Fournier, L.R., 2018. Evidence of Shared Action Plan Representations Between Free Choice and Forced-Choice Tasks, Program, Neuroscience Meeting Planner. No. 2172, *Society for Neuroscience*, San Diego, CA.
- 2.) Fournier, L.R., Taddese, E. & **Richardson, B.**, 2018. Action Plans for Forced-Choice and Free-Choice Responses Share the Same Representational Domain. *The 3rd International Meeting of the Psychonomic Society*, Amsterdam, North Holland.

INVITED PEER REVIEW MANUSCRIPT REVIEWS

- 1.) August 2021 – Journal of Cognition, by the European Society for Cognitive Psychology, Doi: 10.5334/joc.230.

INVITED PRESENTATIONS/TALKS

- 1.) ACTCON Summer Summit on Cognitive Control, Title: Are Free-Choice Biases to Avoid Competition Between Action Plans Related to Working Memory Capacity?, July 2021. Julius-Maximilians-Universität Würzburg, Sanderring, Würzburg, Bavaria.
- 2.) Current Issues in Psychology, PSYCH 506, Title: Shared Representation for Free and Forced Choice Action, October 2019. Washington State University, Pullman, Washington
- 3.) History of Psychology, PSYCH 401, Title: Psychophysics: The search for points of ambiguity, October 2019, Washington State University, Pullman, Washington

GRANTS FUNDED

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| 2021 | Title: Washington State University Graduate and Professional Student Association Dissertation Grant. <i>Principal Investigator:</i> Benjamin Richardson. <i>Funding Agency:</i> Washington State University Graduate and Professional Student Association. <i>Requested/Funded:</i> <u>\$500</u> |
| 2020 | Title: Washington State University Marchionne Summer Research Fellowship Grant. <i>Principal Investigator:</i> Benjamin Richardson. <i>Funding Agency:</i> Washington State University Marchionne Foundation. <i>Requested/Funded:</i> <u>\$5,000</u> |
| 2020 | Title: Washington State University Graduate & Professional Student Association Travel Grant. <i>Principal Investigator:</i> Benjamin Richardson. <i>Funding Agency:</i> Washington State University Graduate & Professional Student Association. <i>Requested/Funded:</i> <u>\$698</u> |
| 2017 | Title: Washington State University Marchionne Summer Research Fellowship Grant. <i>Principal Investigator:</i> Benjamin Richardson. <i>Funding Agency:</i> Washington State University Marchionne Foundation. <i>Requested/Funded:</i> <u>\$5,000</u> |
| 2017 | Title: Washington State University Graduate Travel Grant. <i>Principal Investigator:</i> Benjamin Richardson. <i>Funding Agency:</i> Washington State University Department of Psychology. <i>Requested/Funded:</i> <u>\$1,000</u> |
| 2015 | Title: Summer Creative Research Grant. <i>Principal Investigator:</i> Benjamin Richardson. <i>Funding Agency:</i> Central Washington University. <i>Requested/Funded:</i> <u>\$3,500</u> |
| 2015 | Title: Graduate Creative Research Grant. <i>Principal Investigator:</i> Benjamin Richardson. <i>Funding Agency:</i> Central Washington University. <i>Requested/Funded:</i> <u>\$1,000</u> |
| 2015 | Title: Central Washington University Travel Grant. <i>Principal Investigator:</i> Benjamin Richardson. <i>Funding Agency:</i> Central Washington University. <i>Requested/Funded:</i> <u>\$400</u> |

CONFERENCE PRESENTATIONS

- 1.) **Richardson, B.**, & Fournier, L.R. (2020, November). Partial Are Robust but Reduced After Extensive Stimulus-Response Practice, *Psychonomics Society Annual Meeting*, Online.
- 2.) **Richardson, B.**, & Fournier, L.R. (2019, November). Shared Action Representation for Free and Forced Choice Actions: Behavioral and Psychophysiological Evidence, *Psychonomics Society Annual Meeting*, Montreal, Quebec.
- 3.) **Richardson, B.**, & Fournier, L.R. (2018, November). Evidence of Shared Action Plan Representations Between Free Choice and Forced-Choice Tasks, *Society for Neuroscience*, San Diego, California.
- 4.) Fournier, L.R., Taddese, E. & **Richardson, B.** (2018, May). Action Plans for Forced-Choice and Free-Choice Responses Share the Same Representational Domain. *The 3rd International Meeting of the Psychonomic Society*, Amsterdam, North Holland.
- 5.) Penningroth, B., Broyan, V., Pope, L. & **Richardson, B.** (2017, May). Alpha Wave Comparison and Working Memory Function Between Musicians and Non-Musicians. *Central Washington University Symposium of University Research and Creative Expression*. Ellensburg, Washington.
- 6.) **Richardson, B.**, Greenwald, R., Felke, Z., Whorley, G., Williams, H. & Medrano, M. (2015, May). Reaction Times and Decision Making to Auditory Stimuli in Musicians and Non-Musicians. *Central Washington University*

Symposium of University Research and Creative Expression. Ellensburg, Washington.

- 7.) **Richardson, B.**, Greenwald, R., Felke, Z., Whorley, G., Williams, H. & Medrano, M. (2015, May). Electrophysiological and Behavioral Working Memory Differences Between Musicians and Non-Musicians. *Central Washington University Symposium of University Research and Creative Expression*. Ellensburg, Washington.
- 8.) Ellis, D.M., Greenwald, R., **Richardson, B.**, Celori, A. F., Meador, C., Cherry, J. (2014, Spring). Impact of Video Games on Working Memory. *Central Washington University Symposium of University Research and Creative Expression*. Ellensburg, Washington.
- 9.) **Richardson, B.**, Ellis, D. M., Greenwald, R., Celori, A. F., Cherry, J., & Meador, C. (2014, Spring). Reaction Times and Decision Making in Video Gamers versus Non-Gamers and Between Genders. *The 94th Annual Conference of the Western Psychological Association*. Portland, Oregon.
- 10.) **Richardson, B.**, North, S., Symons, S., & Jantzen, K.J. (2007, Spring). Beta and Gamma Band Desynchronization Reflect the Perceptual Capture of Motion. *The Northwest Cognition and Memory Conference*. Bellingham, Washington.

TEACHING EXPERIENCE

Summer 2020	Statistics in Psychology (Psych 311) , Instructor of Record, undergraduate course, 30 students, Department of Psychology, Washington State University, Pullman, Washington
Spring 2018- Spring 2021	Introduction to Psychology (Psych 105) , Instructor of Record, undergraduate course, ~130 students, Department of Psychology, Washington State University, Pullman, Washington
Summer 2019	Biopsychological Effects of Drugs and Alcohol (Psych 265) , Instructor of Record, undergraduate course, 20 students, Department of Psychology, Washington State University, Pullman, Washington
Fall 2017	Statistics in Psychology (Psych 311) , Lab Graduate Teaching Assistant, undergraduate course, 30, students, Department of Psychology, Washington State University, Pullman, Washington

ACADEMIC WORKSHOPS

- 1.) ACTCON Summer Module Course on Cognitive Control, July, 2021, Online and hosted from Julius-Maximilians-Universität Würzburg, Sanderring, Würzburg, Bavaria.
- 2.) EEGLAB workshop on advanced electrophysiological data analysis, March, 2018, University of California, San Diego, San Diego, California.

PROFESSIONAL SOCIETY AFFILIATIONS

- 1) The Psychonomic Society
- 2) Society for Neuroscience
- 3) American Psychological Association

PROFESSIONAL SERVICE

- 1.) Graduate Student Representative for Experimental Psychology Faculty Committee, (2020-2021). Washington State University, Pullman, Washington.
- 2.) Graduate Student Representative for Central Washington University New Faculty Hiring Committee. (2015). Central Washington University, Ellensburg, Washington.