

Jackson S. Colvett

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Education

Wake Forest University, Winston-Salem, NC, August 2013 - May 2017

Bachelor of Arts in Psychology, minor in Neuroscience

Honors in Psychology,

Thesis: An Investigation of the Relationship between Voluntary Task Switching and Media Multitasking

Washington University in Saint Louis, Saint Louis, MO August 2017 - Present

Graduate Student in Psychological and Brain Science. Area of focus: Brain, Behavior, and Cognition

Preparation in Pedagogy Certificate (In progress). Washington University Teaching Center.

Master of Arts in Psychological and Brain Sciences

Thesis: The Unique Effects of Relatively Recent Conflict on Cognitive Control

PhD in Psychological and Brain Sciences

Proposed Dissertation: Putting Attentional Control on the Map: An Investigation of Meaningful Boundaries and Context-Specific Control

Publications

Bugg, J.M., Suh, J., & **Colvett, J.S.** (2022). The dominance of item learning in the location-specific proportion congruence paradigm. *Quarterly Journal of Experimental Psychology*, 75(8), 1497-1513, doi: 10.1177/17470218211055162

Colvett, J.S., & Bugg, J.M. (2022). Meaningful boundaries create boundary conditions for control. *Psychological Research*, 86(5), 1615-1635, doi: 10.1007/s00426-021-01580-9

Colvett, J.S., Nobles, L.M., Bugg, J.M. (2020). The unique effects of relatively recent conflict on attentional states. *Journal of Experimental Psychology: Human Perception and Performance* 46(11), 1344–1367, doi: 10.1037/xhp0000860

Bugg, J.M., Suh, J., **Colvett, J. S.**, & Lehmann, S.G. (2020). What can be learned in a context-specific proportion congruence paradigm? Implications for reproducibility. *Journal of Experimental Psychology: Human Perception and Performance*, 46(9), 1029–1050, doi: 10.1037/xhp0000801

Krcmar, M., Lapierre, M., Hoxie, A., & **Colvett, J. S.** (2017). Observing parent-child purchase related interactions in US-based retail environments: Replication and extension. *Journal of Children and Media*. 11:3, 261-277, doi: 10.1080/17482798.2017.1303524

Kitua, M., Davis, M., **Colvett, J.S.**, Mwachiro, M., & Qayyum, R. (2016). Clinical presentation, management and outcome of cardiopulmonary resuscitation at Tenwek hospital: The oCPRTen Study. *Resuscitation*, 106, 15-16, doi: 10.1016/j.resuscitation.2016.06.008

*Denotes undergraduate co-author

Preprints

McLaughlin, D. J., **Colvett, J.S.**, Bugg, J.M., & Van Engen, K.J. (2022). Sequence effects and speech perception: Cognitive load for speaker-switching within and across accents. *PsyArXiv*.

Under Review

McLaughlin, D. J., **Colvett, J.S.**, Bugg, J.M., & Van Engen, K.J. (2022). Sequence Effects and Speech Perception: Cognitive Load for Speaker-Switching Within and Across Accents. *Psychonomic Bulletin and Review*.

Colvett, J.S., Bales., L.C., Jennings, J.M. (In Prep) Assessing the relationship between media multitasking and task switching ability. *Experimental Psychology*.

Colvett, J.S., Weidler B.J., Bugg, J.M. (In Prep). Horizontal benefit in location-specific reactive control relies on conflict in the gaze path. *Attention, Perception, and Psychophysics*

In Prep

Bustos, B.N.[^], **Colvett, J.S.**[^], Bugg J.M., Kool, W. (In Prep). Retrieval of learning-based control settings does not retrieve demand.

Colvett, J.S., Weidler, B.J., Bugg, J.M., (In Prep) Revealing object-based attentional control in a moving object paradigm.

[^]denotes shared first authorship

Conference Talks

Colvett, J.S., Wetz, L.* , Bugg, J.M. (2022). *Response modality as a boundary for item-specific transfer*. Presentation, Control Process (talk given online).

Krcmar, M., Lapierre, M., Hoxie, A., & **Colvett, J. S.** (2015). *Observing parent-child purchase related interactions in a retail environment: Replication and extension*. Presentation, 65th Annual International Communication Association Conference, San Juan, Puerto Rico.

Kitua, M., Michael, D., **Colvett, J. S.**, & Mwachiro, M. (2015). *Clinical presentation, management and outcome of cardiopulmonary resuscitation at Tenwek Hospital: The oCPRTen study*. Presentation at the Kenya Medical Association Annual Conference, Eldoret, Kenya.

*denotes undergraduate co-author

Poster Presentations

- Colvett, J.S.**, Weidler, B.J., Bugg, J.M. (2021). Revealing Object-Based Attentional Control in a Moving Object Paradigm. Presentation, 62nd Annual Meeting of the Psychonomic Society. New Orleans, Louisiana (talk given online).
- McLaughlin, D.J., **Colvett, J.S.**, Bugg, J.M., Van Engen, K.J. (2021). Sequence effects and speech perception: Cognitive load for speaker-switching within and across accents. Presentation, 62nd Annual Meeting of the Psychonomic Society. New Orleans, Louisiana (talk given online).
- Colvett, J.S.**, Jeliaskova, E.I.*, Bugg, J.M. (2020). Further Evidence for the Effects of Recent Conflict on Attentional Control. Presentation, 61st Annual Meeting of the Psychonomic Society. Austin, Texas (talk given online).
- Colvett, J.S.**, Nobles, L. M.*, Rodriguez, J.*, Bugg J.M. (2019). The Unique Effects of Relatively Recent Conflict on Attentional States. Presentation, 60th Annual Meeting of the Psychonomic Society, Montreal, Quebec.
- Dey, A., **Colvett, J.S.**, Rodriguez, J.*, Frontera, N.*, Bugg, J.M. (2018). Categorical boundaries as a facilitator and attenuator of attentional control transfer. Presentation, 59th Annual Meeting of the Psychonomic Society, New Orleans, Louisiana.
- Colvett, J.S.**, Sams, K., Blumenthal, S.*, Gallitano, K.*, & Jennings, J.M. (2017). Assessing the relationship between media multitasking and task switching. Presentation, 58th Annual Meeting of the Psychonomic Society, Vancouver, British Columbia.
- Sams, K., Colburn, E., Butkevitz, N.*, Osment, A.*, **Colvett, J.S.**, Friedman, J., & Jennings, J. (2017). ADHD, executive functioning, and cued vs. voluntary task switching. Presentation, 58th Annual Meeting of the Psychonomic Society, Vancouver, British Columbia.
- Colvett, J.S.** & Dagenbach, D. (2016). Assessing differences in working memory based on resting state functional connectivity. Presentation, Wake Forest Undergraduate Research Conference, Winston-Salem, North Carolina.
- Krcmar, M., Lapierre, M., Hoxie, A.M., & **Colvett, J.S.** (2015). Observing parent-child purchase related interactions in a retail environment: Replication and extension. Presentation, ACC Meeting of Minds, Raleigh, North Carolina

*Denotes undergraduate co-author

Awards and Honors

- 2021, Psychonomic Society Graduate Student Award
- 2020, Arts and Sciences Dean's Award for Teaching Excellence
- 2020, Department of Psychological & Brain Sciences Assistant to the Instructor Award
- 2019, NSF Graduate Research Fellowship Program Honorable Mention
- 2018, Summer Research Funding, Washington University
- 2017, University Fellow, Washington University
- 2016, Society for Experimental Psychology and Cognitive Science, Division 3 of the APA, SEPCS Pipeline Scholar

Teaching Experience

Instructor, Washington University, Summer 2021, Fall 2021, Fall 2022

Courses: Introduction to Psychology, First-Year Opportunity: Contemporary Issues in Psychology

- Designed both lecture-based and discussion-based courses for entry level psychology students
- Selected relevant readings, prepared engaging activities, and assessed performance with exams and essays.
- Advised students regarding their performance in the course and their goals relevant to psychology.

Teaching Assistant, Washington University, Fall 2018 - Spring 2022

Courses: Experimental Psychology, Cognitive Psychology, Psychological Statistics, Introduction to Psychology, Introduction to Psychology of Aging

- Provide directed feedback and grades on essays, tests, and lab reports
- Present lectures in class regarding memory and attention, experimental design in PsychoPy and research ethics, frequentist and Bayesian statistical methods.
- Assist in the design, preparation, and analysis of independent student research projects

Research Interests

- In situations where a person can learn about the conflict probability in multiple dimensions, which dimensions do they prioritize? Can those default priorities be adjusted?
- Are people more inclined to learn about the conflict probability for features that carry semantic meaning rather than more abstract features?
- Previous experience with conflict consistently affects current performance with control. How much previous experience do people use? Are there factors that make certain experiences more salient?
- People can reactively recruit relevant control settings based on their previous experiences with a stimulus. What factors serve as boundaries to this retrieval occurring effectively?

Research Experience

Graduate Student, Cognitive Control and Aging Lab, Washington University in Saint Louis, Fall 2017 - Present

Research Advisor: Dr. Julie Bugg

- Design several research projects investigating topics such as: what factors serve as a signal for attentional adjustment, what serves as a boundary for the generalization of attentional control states to new locations, and what are different timescales of conflict accumulation.
- Mentor undergraduate research assistants; foster understanding and interest in cognitive control topics

Collaborating Graduate Student, Control and Decision Making Lab, Washington University in Saint Louis, Fall 2019 - Present

Research Advisor: Dr. Wouter Kool

- Design and implement study regarding whether associations with previous reactive control conflict drive subsequent preference.
- Lead lab discussions of topics germane to control processes and decision making
- Mentor undergraduate research assistants and lab manager.

Lab Affiliate, Jennings Lab, Wake Forest University, Fall 2017 - Present

- Designed conceptual replication of existing research to assess confounds in previous study
- Taught undergraduates how to score measures and run protocol, analyze data, and interpret results
- Contributed to manuscript regarding the manipulation of response stimulus interval in voluntary task switching

Research Associate, Jennings Lab, Wake Forest University, Spring 2016-Spring 2017

Research Advisor: Dr. Janine Jennings

- Designed and implemented study investigating the relationship between task switching and media multitasking
- Created and adapted measures for use in study; analyze participant data
- Ran participants through experimental paradigm; trained lab members in running participants through experimental paradigm
- Provided feedback, guidance, and assistance to other ongoing projects as a collaborative student leader in the lab

Research Intern, Laboratory for Complex Brain Networks, Wake Forest Baptist Health, Spring 2016 – Spring 2017

Research Advisor: Dr. Dale Dagenbach

- Analyzed fMRI data to improve understanding of functional connectivity networks
- Examined functional connectivity differences between individuals with high and low working memory capacity
- Analyzed and compared network statistics with behavioral data to assess differences between groups and predict individual differences
- Designed and assessed tutorial used to teach new lab members concepts in functional connectivity

University Service

Committee Member

WUSTL Teaching and Professional Development Committee. Spring 2021-Present

Coordinator, Graduate Student Brown Bag Fall 2019- Spring 2020

Graduate Student Social Committee Fall 2018 - Spring 2019

Resident Adviser, Residence Life and Housing, Wake Forest University, Fall 2015 – Spring 2017

- Ensured safety, promote wellbeing, and provided emotional support for a group of 51 upperclassmen residents
- Coordinated with other resident advisers, Residence Life and Housing staff members, and campus partners to put on events and programs
- Educated and led new staff members in presentational and experiential learning settings

President, Resident Student Association, Wake Forest University, Spring 2015 – Spring 2016

- Organized campus-wide events focusing on improving residential experience for approximately 3,500 students
- Managed an organizational budget of over \$35,000
- Worked with students, staff, and administrators to address concerns facing on-campus students
- Presided over executive board, general body, six hall governments, and six subcommittees
- Proposed ideas and advocated for policy changes in formal presentations with university officials

Departmental Talks

- September 30th, 2020. Sequence effects and speech perception: Cognitive load for speaker-switching within and across accents
- April 17th, 2019. Brain Behavior Cognition Data Blitz
- November 29th, 2017. Brain Behavior Cognition First Year Talk

Laboratory and Computer Skills

Statistics: R; JASP; SPSS

Experimental Programming: PsychoPy; Pavlovia; ePrime; Qualtrics

References

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