

Jennifer Sloane, PhD

Curriculum Vitae

Education

- 2022 **PhD, Cognitive Psychology**, University of New South Wales, Sydney.
Thesis: The effects of interruptions on decision-making with applications in medicine
Supervisor: Chris Donkin, PhD
- 2017 **Masters of Science, Experimental Psychology**, Syracuse University.
Thesis: Effects of item relatedness on output interference in recognition memory
Supervisors: Corey White, PhD and Amy Criss, PhD
- 2014 **Bachelor of Arts, Psychology**, University of Maryland.

Research Experience

- 2024–Present **Research Health Science Specialist, Quantitative Methodologist**, Center for Innovations in Quality, Effectiveness and Safety.
- 2022–2024 **Health Services Researcher, Postdoctoral Fellow**, Center for Innovations in Quality, Effectiveness and Safety.
Supervisors: Ashley Meyer, PhD and Hardeep Singh, MD, MPH
- 2018–2022 **Medical Decision-Making Researcher, Graduate Student**, University of New South Wales.
Supervisor: Chris Donkin, PhD
- 2017 **Memory Researcher, Graduate Student**, Syracuse University.
Supervisor: Amy Criss, PhD
- 2017 **Decision-Making Researcher, Visiting Student: two months for study abroad**, University of New South Wales.
Supervisor: Chris Donkin, PhD
- 2015–2017 **Decision-Making Researcher, Graduate Student**, Syracuse University.
Supervisor: Corey White, PhD
- 2015 **Research Coordinator**, "Hippocampal Memory Network" Project, Neurocognitive Development Lab, University of Maryland.
Supervisor: Tracy Riggins, PhD
- 2014–2015 **Research Assistant**, Decision, Attention, and Memory Lab, University of Maryland.
Supervisor: Michael Dougherty, PhD
- 2012–2015 **Research Assistant**, Neurocognitive Development Lab, University of Maryland.
Supervisor: Tracy Riggins, PhD

Teaching Experience

Courses Taught as Instructor:

- 2023 **Introduction to R and Programming**, Center for Innovations in Quality, Effectiveness and Safety.
Presented 8 workshops for faculty and employees.
- 2021 **Introduction to R and Data Science**, University of New South Wales.
Presented workshops for year 7 and 8 students as part of an [Introductory Course on Data Science and R](#).
- 2016 **Cognitive Psychology**, Syracuse University.

Courses Taught as Teaching Assistant:

- 2021 **Psychology Internship**, University of New South Wales.
- 2018 **Research Methods**, University of New South Wales.
- 2017 **Introduction to Psychology**, *Teaching Assistant Coordinator*, Syracuse University.
- 2015–2017 **Introduction to Psychology**, Syracuse University.
- 2014 **Developmental Psychology**, University of Maryland.
- 2013 **Elementary School Volunteer and Assistant**, University Park Elementary School, Hyattsville, MD.

Free Workshops, Education Websites, and Tutorials:

- 2023–Present **Creator of R4Beginners**.
Designed and built the [R4Beginners](#) website to help individuals learn how to program in R.
- 2022–Present **Contributor and Member of R-Girls**.
Built the [R-Girls website](#), created [video tutorials](#) to teach others how to build their own websites, and delivered in-person lessons to over 30 R-girls.
- 2021 **Co-founder and committee member of UNSW CodeRs**.
Created the CodeRs [website](#), presented a workshop on how to build websites in R, and helped students and faculty answer coding questions during monthly drop-in help sessions.

Mentoring, Tutoring, and Volunteering Experience

Mentoring and Tutoring Experience:

- 2020–2021 **PhD Mentor**, University of New South Wales.
Mentored 20 high school students in as part of a 1-week long intensive summer school program in Cognitive Science in 2020 and 2021.
- 2017 **Teaching Mentor**, Syracuse University.
Mentored incoming international and domestic students to help prepare them to teach at the graduate level.
- 2016–2017 **Tutor**, Syracuse University.
Tutored elementary students through the Women in Science and Engineering Program.
- 2014 **Tutor**, University of Maryland.
Tutored student athletes through the Academic Support and Career Development Unit.

Volunteering Experience:

2018-Present **Member of RLadies.**

Presented at RLadies Sydney and RLadies Auckland, sharing my knowledge and skills in R, specifically with ggplot and tidyverse.

2020 **Domestic Violence NSW Service Management.**

Assisted a local NSW charity in organizing data from a survey of over 1000 respondents and creating clear, aesthetically appealing visualizations.

2019 **Member of the UNSW Women in Maths and Science Champions Program.**

Promoted STEM for middle and high school students as co-editor and creator of the organization's [blog](#), University of New South Wales

Publications

- Zubkoff, L., Zimolzak, A. J., Meyer, A., **Sloane, J.**, Shahid, U., Giardina, T., Memon, S. A., Scott, T., Murphy, D. R., & Singh, H. (2024). Improving Missed Test Results Through a Virtual Breakthrough Series Collaborative: A Stepped Wedge Randomized Clinical Trial. *JAMA Network Open*. (in revision).
- **Sloane, J.**, Singh, H., Upadhyay, D. K., Korukonda, S., Marinez, A., & Giardina, T. D. (2024). Partnership as a Pathway to Diagnostic Excellence: The Challenges and Successes of Implementing the Safer Dx Learning Lab. *The Joint Commission Journal on Quality and Patient Safety*.
- Khan, S., Cholankeril, R., **Sloane, J.**, Offner, A., Bradford, A., Matin, R., Shahid, U., & Singh, H. Supported by Sittig, D.F., Ramisetty, X.R. "Current State of Diagnostic Safety: Implications for Research, Practice, and Policy." Content last reviewed January 2024. Agency for Healthcare Research and Quality, Rockville, MD. Available at: <https://www.ahrq.gov/sites/default/files/wysiwyg/topics/dxsafety-current-state.pdf>
- Staal, J., Katarya, K., Speelman, M., Brand, R., Alsma, J., **Sloane, J.**, Van den Broek, W., and Zwaan, L. (2023). Impact of performance and information feedback on medical interns' confidence-accuracy calibration. *Advances in Health Sciences Education*, 1-17.
- **Sloane, J.**, Donkin, C., Newell, B. R., Singh, H., & Meyer, A. N. (2023). Managing Interruptions to Improve Diagnostic Decision-Making: Strategies and Recommended Research Agenda. *Journal of General Internal Medicine*, 1-6.
 - o N.B. Interview in [ACP Hospitalist](#) and featured in [AHRQ News Now](#).
- **Sloane, J.**. The effects of interruptions on decision-making with applications in medicine (Doctoral dissertation, UNSW Sydney).
- **Sloane, J.**, Newell, B. R., & Liang, G., Donkin, C. (2022). The Mazing Race: Effects of interruptions and benefits of interruption lags in a novel maze-like decision-making paradigm. *Journal of Experimental Psychology: Applied*, 29(3), 654.
- Liang, G., **Sloane, J.F.**, Donkin, C., & Newell, B. R. (2022). Adapting to the algorithm: how accuracy comparisons promote the use of a decision aid. *Cognitive research: principles and implications*, 7(1), 1-21..

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- **Sloane, J.**, Donkin, C., Newell, B. R., & Liang, G. (2019). What's Lagging in our Understanding of Interruptions?: Effects of Interruption Lags in Sequential Decision-Making. In *CogSci* (pp. 1063-1069).
- Starns, J. J., Cataldo, A. M., Rotello, C. M., Annis, J., Aschenbrenner, A., Bröder, A., ...**Sloane, J.**... & Wilson, J. (2019). Assessing theoretical conclusions with blinded inference to investigate a potential inference crisis. *Advances in Methods and Practices in Psychological Science*, 2(4), 335-349.
- White, C.N., Curl, R.A., & **Sloane, J.F.** (2016). Using decision models to enhance investigations of individual differences in cognitive neuroscience. *Frontiers in Psychology*, 7, 81.

Invited Talks

- **Sloane, J.**, Meyer, A. N., Olson, A., & Singh, H. (2023). Diagnostically Challenging conditions. Invited talk at the *Annual Meeting of Society to Improve Diagnosis in Medicine: Research and Education Summit*. Cleveland, USA.
- **Sloane, J.**, Zwaan, L., & Olson, A. (2023). Navigating the Complexities and Uncertainties in Diagnosis. Invited workshop at the *Annual Meeting of Society to Improve Diagnosis in Medicine*. Cleveland, USA.
- **Sloane, J.**, Meyer, A. N. (2023). Cognitive Vulnerabilities and Potential Solutions for Improved Diagnosis. Invited talk for the *Patient-Partnered Diagnostic Center of Excellence*. Houston, Texas.
- **Sloane, J.**, Donkin, C., Curl, R.A., & White, C.N. (2020). Item relatedness in output interference. Invited talk at the *University of Melbourne*. Melbourne, Australia.
- **Sloane, J.**, Donkin, C., & Newell, B. (2019). Effects of interruptions, time pressure, and feedback on decision-making. Invited talk at the *University of Maryland, College Park*. Maryland, USA.
- **Sloane, J.**, Donkin, C., Newell, B., & Liang, G. (2019). What's lagging in our understanding of interruptions?. Invited talk at the *Annual Meeting of Cognitive Science Society*. Montreal, Canada.
- **Sloane, J.**, Liang, G., Newell, B., & Donkin, C. (2019). What's lagging in our understanding of interruptions?. Invited talk at the *Annual Meeting of the Australasian Society for Experimental Psychology*. Wellington, New Zealand.
- **Sloane, J.**, Liang, G., Newell, B., & Donkin, C. (2018). What's lagging in our understanding of interruptions?: Effects of interruption lags in sequential decision-making. Invited talk at *Syracuse University*. Syracuse, USA.

Poster Presentations

- **Sloane, J.**, Singh, H., Upadhyay, D., Korukonda, S., Marinez, A., & Giardina, T. (2023). Partnership as a Pathway to Diagnostic Excellence - The Challenges and Successes of the Safer Dx Learning Lab. Poster presented at the *Annual Meeting of the Society to Improve Diagnosis in Medicine*, Cleveland, USA.

- **Sloane, J.**, Shahid, U., Matin, R., Zwaan, L., Giardina, T., Singh, H., & Meyer, A. N. (2023). What does confidence mean to you? A qualitative study on how clinicians conceptualize confidence. Poster presented at the *Annual Meeting of the Society to Improve Diagnosis in Medicine*, Cleveland, USA.
- **Sloane, J.**, Donkin, C., Newell, B., Singh, H., & Meyer, A. N. (2022). Experimental methods for understanding diagnostic difficulty. Poster presented at the *Annual Meeting of the Society to Improve Diagnosis in Medicine*, Minneapolis, USA.
- **Sloane, J.**, Chan, N., Donkin, C., & Newell, B. (2021). Investigating the impact of interruptions within a unique set of medical cases. Poster presented at the *Annual Meeting of the Society to Improve Diagnosis in Medicine*, virtual.
- **Sloane, J.**, Donkin, C., Curl, R.A., & White, C.N. (2020). Investigating the effect of memory bias on output interference. Poster presented accompanied by a 5 minute talk at the *Annual Meeting of the Psychonomic Society*, virtual.
- **Sloane, J.**, Liang, G., Donkin, C., & Newell, B. (2019). The Cognitive Reflection Test under pressure. Poster presented at the *International Meeting of Diagnostic Error in Medicine*, Melbourne, Australia and at the *Annual Meeting of the Society for Mathematical Psychology*, Montreal, Canada.
- **Sloane, J.**, Liang, G., Donkin, C., & Newell, B. (2018). What's lagging in our understanding of interruptions?: Effects of interruption lags in sequential decision-making. Poster presented at the *Annual Meeting of the Society of Judgment and Decision Making*, New Orleans, USA.
- **Sloane, J.**, Curl, R.A., White, C.N., Donkin, C., & Criss, A.H. (2017). Effects of item relatedness on output interference in recognition memory: A hierarchical Bayesian Analysis. Poster presented at the *Annual Meeting of the Psychonomic Society*, Vancouver, Canada and at the *Annual Meeting of the Australasian Society for Experimental Psychology*, Hobart, Australia.
- **Sloane, J.**, Curl, R.A., & White, C.N. (2016). Understanding effects of categorization on memory bias and discriminability as a function of output interference. Poster presented at the *Annual Meeting of the Society for Mathematical Psychology*, New Brunswick, NJ and at the *Annual Meeting of the Psychonomic Society*, Boston, USA.
- Curl, R.A., **Sloane, J.**, & White, C.N. (2015). Exploring the Representation of Semantic Similarity in Recognition Memory. Poster presented at the *Annual Meeting of the Psychonomic Society*, Chicago, USA.

Reviewer Experience

- 2024-present Ad hoc journal reviewer for *The Joint Commission Journal on Quality and Patient Safety*
- 2023-present Ad hoc journal reviewer for *Health Expectations*
- 2023-present Ad hoc journal reviewer for *Diagnosis*
- 2022-present Abstract reviewer for *Society to Improve Diagnosis in Medicine Conference*

Honors and Awards

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- 2022-present Fellowship in Diagnostic Excellence (Society to Improve Diagnosis in Medicine)
- 2018-2022 Scientia PhD Scholarship (University of New South Wales)
 - 2019 Member of Women in Maths and Science Champions Program (University of New South Wales)
 - 2019 First place in a data-hackathon competition
 - 2018 Third place in the UNSW Postgraduate Research Competition
 - 2017 Neuroscience Travel Award
- 2016–2017 Member of Women in Science and Engineering (Syracuse University)
 - 2016 Women of Mathematical Psychology Travel and Networking Award
 - 2015 Mark S. Harper Award for Excellence in Psychology (University of Maryland)
- 2012-2014 College Park Scholars Program, *Public Leadership* (University of Maryland)
Phi Beta Kappa