


ALYSSA H. SINCLAIR | Curriculum Vitae

Duke University, Center for Cognitive Neuroscience, Durham, NC

Lab Phone: (919)-681-4601

Email: allie.sinclair@duke.edu

 @sinclair_allie

 0000-0003-0447-3959

Research Interests: *Prediction error, memory & belief updating, learning, decision making, hippocampus*

Education

- Ph.D., Duke University — Psychology & Neuroscience, Cognitive Neuroscience** 2018 — 2023
Cumulative GPA: 4.0/4.0 (anticipated)
Advisors: Prof. R. Alison Adcock & Prof. Gregory R. Samanez-Larkin
Committee Members: Prof. Elizabeth Marsh & Prof. Felipe De Brigard
- M.A., Duke University — Psychology & Neuroscience, Cognitive Neuroscience** 2018-2021
Cumulative GPA: 4.0/4.0
- B.Sc. with High Distinction, Valedictorian, University of Toronto — Research Psychology** 2014 — 2018
Cumulative GPA: 4.0/4.0, recipient of the Governor General's Academic Medal
Honors Thesis: *Prediction Error Influences Episodic Memory Reconsolidation*
Advisors: Prof. Morgan Barense & Prof. William Cunningham

Teaching Experience

- Lecturer — Cognitive Neuroscience Research Internship, Duke University** 2020-2021
Topics: *Cog Neuro Methods, Memory & Motivation, Reinforcement Learning*
- Lecturer — Duke Neuro Methods Workshops, Duke University** 2020-2021
Topics: *Mixed Effects Regression, Advanced Data Visualization*
- Teaching Assistantships — Dep. of Psychology & Neuroscience, Duke University**
- NEUROSCI101: Biological Bases of Behavior, Team-Based (Prof. Minna Ng) 2021
 - PSY444: Neuroscience Service Learning (Prof. Minna Ng) 2021
 - NEUROSCI101: Biological Bases of Behavior (Profs. Karen Murphy & Minna Ng) 2020
- Teaching Assistantship — Victoria College, University of Toronto**
- VIC171: Method, Theory, & Practices in Natural Sciences (Prof. Brian Baigrie) 2017-2018
- Independent Tutor for University and High School Students — Toronto, ON** 2016-2018

Preprints

Sinclair, A.H., Taylor, M.K., Brandel-Tanis, F., Davidson, A., Chande, A.T., Rishishwar, L., Andris, C., Adcock, R.A., Weitz, J.S., Samanez-Larkin, G.R., & Beckett, S.J. (2022). Counteracting COVID-19 risk misestimation with an interactive website: An online informational intervention. *PsyArXiv*. DOI: <https://doi.org/10.31234/osf.io/v8tdf>

Publications

- Sinclair, A.H.**, Manalili, G.M., Brunec, I.K., Adcock, R.A., & Barense, M.D. (2021). Prediction errors disrupt hippocampal representations and update episodic memories. *Proceedings of the National Academy of Sciences*, 118, e2117625118. DOI: <https://doi.org/10.1101/2020.09.29.319418>
- Sinclair, A.H.***, Hakimi, S.* , Stanley, M.L., Adcock, R.A., & Samanez-Larkin, G.R. (2021). Pairing facts with imagined consequences improves pandemic-related risk perception. *Proceedings of the National Academy of Sciences*, 118(32), e2100970118. DOI: <https://doi.org/10.1073/pnas.2100970118> *Denotes equal contribution.
- Sinclair, A.H.**, Stanley, M.L., Hakimi, S., Cabeza, R., Adcock, R.A., & Samanez-Larkin, G.R. (2021). Imagining a personalized scenario selectively increases perceived risk of viral transmission for older adults. *Nature Aging*, 1. DOI: <https://doi.org/10.1038/s43587-021-00095-7>
- Sinclair, A.H.**, Stanley, M.L., & Seli, P. (2020). Closed-minded cognition: Right-Wing Authoritarianism is negatively related to belief updating following prediction error. *Psychonomic Bulletin and Review*, 27, 1348–1361. DOI: <https://doi.org/10.31234/osf.io/94a7v>
- Stanley, M.L., **Sinclair, A.H.**, & Seli, P. (2020). Intellectual humility and perceptions of political opponents. *Journal of Personality*, 88(6), 1-21. DOI: <https://doi.org/10.1111/jopy.12566>
- Sinclair, A.H.** & Barense, M.D. (2019). Prediction error and memory reactivation: How incomplete reminders drive reconsolidation. *Trends in Neurosciences*, 42(10), 728-740. DOI: <https://doi.org/10.31234/osf.io/h8fy9>
- Sinclair, A.H.** & Barense, M.D. (2018). Surprise and destabilize: Prediction error influences episodic memory reconsolidation. *Learning & Memory*, 25(8), 369-381. DOI: <https://doi.org/10.1016/j.tins.2019.08.007>

Conference Talks

- Sinclair, A.H., Hakimi, S., Stanley, M.S., Adcock, R.A., Samanez-Larkin, G.R. (2021, July). Pairing facts with imagined consequences improves pandemic-related risk perception. *Society for Applied Research on Memory and Cognition*, Virtual Conference.
- Sinclair, A.H., Manalili, G.M., & Barense, M.D. (2019, June). Surprise drives episodic memory updating and distortion. *Society for Applied Research on Memory and Cognition*, Cape Cod, MA.
- Sinclair, A.H. & Barense, M.D. (2018, May). Prediction error influences episodic memory reconsolidation. *Toronto Area Memory Group Conference*, Toronto, ON.
- Sinclair, A.H. & Barense, M.D. (2018, May). Prediction error influences episodic memory reconsolidation. *Undergraduate Thesis Conference*, Toronto, ON. ***Awarded Notable Presentation.**
- Sinclair, A.H. & Barense, M.D. (2018, April). Surprise and destabilize: Prediction error influences episodic memory reconsolidation. *NeuroXchange Conference*, Hamilton, ON.

Poster Presentations

- Sinclair, A.H., Hakimi, S., Stanley, M.S., Adcock, R.A., & Samanez-Larkin, G.R. (2020, October). Perceived vs. actual virus transmission risk during the COVID-19 pandemic. *Society for Neuroeconomics*, Virtual Conference.
- Sinclair, A.H., Hakimi, S., Adcock, R.A., & Barense, M. D. (2020, August). Effective connectivity among cortico-hippocampal regions predicts memory for naturalistic episodes. *Context and Episodic Memory Symposium*, Virtual Conference.
- Sinclair, A.H., Poh, J.H., Adcock, R.A., & Barense, M. D. (2020, May). Neural representations of emotional valence and intensity during naturalistic events. *Cognitive Neuroscience Society*, Virtual Conference.
- Sinclair, A.H., Manalili, G.M., & Adcock, R.A., & Barense, M. D. (2019, Nov). Surprising event boundaries modulate hippocampal activity and distort episodic memories. *Psychonomic Society*, Montreal, QC.
- Sinclair, A.H., Manalili, G.M., Adcock, R.A., & Barense, M. D. (2019, Oct). Prediction errors at event boundaries drive episodic memory reconsolidation. *Society for Neuroscience*, Chicago, IL. ***Trainee Professional Development Award**
- Sinclair, A.H., Manalili, G.M., & Barense, M.D. (2019, Apr). Neural mechanisms of prediction error and episodic memory distortion. *Smokies Cognition and Neuroscience Symposium*, Asheville, NC.
- Sinclair, A.H., Manalili, G.M., & Barense, M.D. (2019, Mar). Neural mechanisms of episodic memory reconsolidation: A critical role for prediction error. *Cognitive Neuroscience Society*, San Fran., CA.
- Sinclair, A.H. & Barense, M. D. (2017, Nov). Surprise and destabilize: Prediction error triggers episodic memory updating. *Society for Neuroscience*, Washington, D.C.
- Sinclair, A.H. & Barense, M. D. (2017, Apr). Prediction errors in episodic memory reconsolidation. *NeuroXchange Conference*, McMaster University, Hamilton, ON. ***Outstanding Poster Award.**

Fellowships & Grants

Graduate Research Fellowship, <i>National Science Foundation</i>	\$138,000, 2019–23
Charles Lafitte Foundation Outreach Grant, <i>Duke University, CNRI</i>	\$36,434, 2021–22
Research Germinator Award, <i>Duke Institute for Brain Sciences</i>	\$25,000, 2019–22
Postgraduate Scholarship, <i>Natural Sci. and Eng. Research Council of Canada</i>	\$63,000, 2019–22
James B. Duke Graduate Fellowship, <i>Duke University</i>	\$20,000, 2018–2022
Special Topics COVID-19 Research Grant, <i>Duke University</i>	\$2,500, 2020
NSERC Canada Graduate Scholarship- Master's (<i>Declined</i>)	\$17,500, 2018
NSERC Undergraduate Student Research Award, <i>University of Toronto</i>	\$5,625, 2018
Undergraduate Research Grant, <i>University of Toronto</i>	\$1,500, 2018
George Mandler Research Fund, <i>University of Toronto</i>	\$550, 2018

Awards & Honors

Trainee Professional Development Award, <i>Society for Neuroscience</i>	2019
SARMAC 2019 Travel Award, <i>Society for Applied Research on Memory & Cognition</i>	2019
Charles Lafitte Foundation Travel Awards, <i>Duke University</i>	2018, 2019
Governor General's Academic Medal, <i>Government of Canada, University of Toronto</i>	2018
National award granted to the highest-performing undergraduate student.	
John Black Aird Scholarship, <i>University of Toronto</i>	2018
Awarded to the top student of the graduating class (of 18,500 students).	
Rose Sheinin Award, <i>University of Toronto</i>	2018
Awarded for academic excellence in an undergraduate science program.	
Women's Centenary Silver Medal, <i>Victoria College, University of Toronto</i>	2018
Treble & Barber Graduate Studies Scholarship, <i>Victoria College, University of Toronto</i>	2018
Dean's List Scholar, <i>University of Toronto</i>	2014–18
James Mark Baldwin Prize for Best Essay, <i>University of Toronto</i>	2017
Moscovitch Award for Outstanding Contribution to Discussion, <i>TAMeG Conference</i>	2017
Outstanding Poster Presentation, <i>NeuroXchange Conference</i>	2017
University of Toronto Scholars Award, <i>University of Toronto</i>	2014–17
Academic Merit Scholarships, <i>Victoria College, University of Toronto</i>	2014–17

Skills

- fMRI Data Collection & Analysis (FSL, SPM)
- Computational fMRI Analysis (NeuroHackademy 2020)
- Transcranial Magnetic Stimulation Certification
- Programming and statistics with R, Python, Bash, Psychopy/Pavlovia, MATLAB, SPSS, & EyeLink
- Data Visualization with R and Adobe Illustrator

Affiliations

- Society for Neuroscience
- Cognitive Neuroscience Society
- Society for Applied Research in Memory and Cognition
- Society for Neuroeconomics
- Psychonomic Society

Service & Outreach

Ad Hoc Reviewer — *Psychological Science, Nature Communications, Journal of Cognitive Neuroscience, Learning & Memory, Cognition, Learning & Motivation, Memory & Cognition, Neuropsychologia, Journal of Applied Research on Memory and Cognition, WIREs Cognitive Science, Personality Science*

Nominated Representative — *Graduate Student Affairs, Duke University* 2019-Present
Graduate Student Liaison representing the Cognitive Neuroscience Program.

Project Coordinator & Mentor — *Cognitive Neuroscience Research Internship* 2020-Present
Contributed to developing and leading a research internship program that provides equitable and accessible research opportunities for undergraduate students from historically underrepresented backgrounds. Lectured, mentored, performed administration, and obtained funding (*Charles Lafitte Foundation Outreach Grant*). <https://sites.duke.edu/cogneuroresearchinternship/>

Service Learning Facilitator — *Neuroscience Service Learning Course, Duke University* 2021
Contributed to developing and facilitating a new service learning course. Forged new connections with local community partners that support K-8 children in underserved neighborhoods. Oversaw the design, production, and donation of educational activity kits that introduce children to neuroscience.

Mentor — *Científico Latino: Graduate School Mentorship Initiative* 2019-Present
Guided STEM graduate school applicants from underrepresented minorities. Revised graduate and NSF-GRFP applications, conducted mock interviews.

Volunteer Editor — *The Inkblot: Undergraduate Journal of Psychology* 2017-2018
Reviewed & edited papers from undergraduate psychology students.

Let's Talk Science Challenge — *University of Toronto* 2017
Outreach poster fair, communicating neuroscience to middle school students.

References

Prof. Gregory R. Samanez-Larkin, *Duke University*

g.samanezlarkin@duke.edu

Prof. R. Alison Adcock, *Duke University*

alison.adcock@duke.edu

Prof. Morgan D. Barense, *University of Toronto*

morgan.barense@utoronto.ca

Prof. Minna Ng, *Duke University*

minna.ng@duke.edu

Prof. William Cunningham, *University of Toronto*

cunningham@psych.utoronto.ca

Filename: CV_Sinclair.docx
Directory: /Users/sinclair/Library/CloudStorage/Box-Box/Grants_CV_Transcripts
Template: /Users/sinclair/Library/Group Containers/UBF8T346G9.Office/User
Content.localized/Templates.localized/Normal.dotm
Title:
Subject:
Author: Allie Sinclair
Keywords:
Comments:
Creation Date: 2/9/22 6:49:00 PM
Change Number: 3
Last Saved On: 2/9/22 6:54:00 PM
Last Saved By: Allie Sinclair
Total Editing Time: 4 Minutes
Last Printed On: 2/9/22 6:57:00 PM
As of Last Complete Printing
Number of Pages: 6
Number of Words: 1,385
Number of Characters: 11,247 (approx.)