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 ORCID 0000-0003-0447-3959

Research Interests: Prediction error, episodic memory, belief updating, hippocampus, reconsolidation

Education

Ph.D., **Duke University** — Psychology & Neuroscience, Cognitive Neuroscience 2018 - 2023Cumulative GPA: 4.0/4.0 (anticipated)

Advisors: Dr. R. Alison Adcock & Dr. Gregory R. Samanez-Larkin Committee Members: Dr. Elizabeth Marsh & Dr. Felipe de Brigard

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: Dr. Morgan Barense & Dr. William Cunningham

Teaching Experience

Teaching Assistantships — Duke University

2021 PSY444: Neuroscience Service Learning (Dr. Minna Ng)

NEUROSCI101: Biological Bases of Behavior (Drs. Karen Murphy & Minna Ng) 2020

Teaching Assistantship — University of Toronto

VIC171: Method, Theory, & Practices in Natural Sciences (Dr. Brian Baigrie) 2017-2018

Independent Tutor for University and High School Students — *Toronto*, ON 2016-2018

Skills

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

Affiliations

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

References

Dr. R. Alison Adcock, Duke University

Dr. Morgan D. Barense, University of Toronto

Dr. Gregory Samanez-Larkin, Duke University

Dr. William Cunningham, University of Toronto

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cunningham@psych.utoronto.ca

| NSF Graduate Research Fellowship, National Science Foundation | \$138,000, 2019—23 |
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| Postgraduate Scholarship, Natural Sci. and Eng. Research Council of Canada | \$63,000, 2019—21 |
| Special Topics COVID-19 Research Grant, Duke University | \$2,500, 2020 |
| Research Germinator Award, Duke Institute for Brain Sciences | \$25,000, 2019—20 |
| James B. Duke Graduate Fellowship, Duke University | \$20,000, 2018—2021 |
| NSERC Canada Graduate Scholarship- Master's (Declined) | \$17,500, 2018 |
| NSERC Undergraduate Student Research Award, University of Toronto | \$5,625, 2018 |
| Undergraduate Research Grant, University of Toronto | \$1,500, 2018 |
| George Mandler Research Fund, University of Toronto | \$550, 2018 |
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Awards & Honors

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

- Sinclair, A. H., Stanley, M. L., Hakimi, S., Cabeza, R., Adcock. R. A., & Samanez-Larkin, G. R. (2021). Imagining personally-relevant outcomes influences perceived risk of viral transmission for older adults. *PsyArXiv*. DOI: 10.31234/osf.io/6m5p4
- 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. *PsyArXiv*. DOI: 10.31234/osf.io/53a9f
- Sinclair, A. H., Manalili, G. M., Brunec, I. K., Adcock. R. A., & Barense, M. D. (2020). Prediction errors disrupt hippocampal representations and update episodic memories. *BioRxiv*. DOI: https://doi.org/10.1101/2020.09.29.319418
- **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: 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. DOI: 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: 10.1016/j.tins.2019.08.007

Service & Outreach

- Ad Hoc Reviewer Psychological Science, Learning & Memory, Learning & Motivation, Memory & 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 Motivation & Decision Sciences Research Internship

 Helped develop and lead a research internship program that prioritized

 outreach to first-generation and underrepresented students without prior

 research experience. Lectured, mentored, and performed administration.
- Mentor Científico Latino: Graduate School Mentorship Initiative2019-2021Guiding STEM graduate school applicants from underrepresented minorities.

Revised graduate and NSF-GRFP applications, conducted mock interviews.

- **Volunteer Editor** The Inkblot: Undergraduate Journal of Psychology

 Reviewed & edited papers from undergraduate psychology students.
- Let's Talk Science Challenge University of Toronto

 Outreach poster fair, communicating neuroscience to middle school students.

Conference Talks

- Barense, M.D. & Sinclair, A.H. (2020, May). Past meets present: Prediction error drives episodic memory updating. *Cognitive Neuroscience Society*, 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., & 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., & Barense, M. D. (2019, Oct). Prediction errors at event boundaries drive episodic memory reconsolidation. *Society for Neuroscience*, Chicago, IL. *Trainee Prof. Dev. 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.