

Rose Cooper, PhD

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EMPLOYMENT

- 2021 –** **Northeastern University | Experiential AI Research Fellow**
College of Science, Department of Psychology
Affective & Brain Sciences Lab
- 2017 – 2021** **Boston College | Postdoctoral Researcher**
Department of Psychology and Neuroscience
Memory Modulation Lab
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EDUCATION

- 2013 – 2017** **University of Cambridge | PhD Psychology**
Department of Psychology
Supervisor: Professor Jon Simons
Thesis: The neurocognitive basis of recollection in autism
- 2012 – 2013** **University College London | MSc Cognitive & Decision Sciences**
Department of Experimental Psychology
Award: Distinction
- 2009 – 2012** **University of Nottingham | BSc (Hons) Psychology**
Department of Psychology
Award: First Class
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AWARDS AND FUNDING

- 2021** Experiential AI Postdoctoral Research Fellowship, Northeastern University
- 2021** Boston College Postdoctoral Association Knowledge Dissemination Award
- 2019** Kavli Summer Institute in Cognitive Neuroscience (SICN) Fellow
- 2019** Boston College Department of Psychology Trainee Education Grant
- 2019** Frith Prize, Experimental Psychology Society: *Exceptional PhD thesis*
- 2018** eLife Early Career Travel Award

2018	Boston College Postdoctoral Association Knowledge Dissemination Award
2017	Methods in Neuroscience at Dartmouth (MIND) Fellow
2016	Guarantors of Brain Travel Grant
2013-16	UK Economic and Social Research Council (ESRC) Doctoral Studentship
2013-16	St John's College, Cambridge Benefactors' Scholarship
2012	British Psychological Society Undergraduate Award: <i>Highest degree</i>
2012	University of Nottingham Psychology Prize: <i>Highest grades</i>
2011	University of Nottingham Psychology Prize: <i>Highest grades</i>

PUBLICATIONS

see [Google Scholar](#)

1. **Cooper, R. A.**, Kurkela, K. A., Davis, S. W., & Ritchey, M. (2021). Mapping the organization and dynamics of the posterior medial network during movie watching. *NeuroImage*, 236, 118075.
2. Ritchey, M.* & **Cooper, R. A.*** (2020). Deconstructing the posterior medial episodic network. *Trends in Cognitive Sciences*, 24(6), 451-465.
3. **Cooper, R. A.** & Ritchey, M. (2020). Progression from feature-specific brain activity to hippocampal binding during episodic encoding. *Journal of Neuroscience*, 40(8), 1701-1709.
4. Samide, R., **Cooper, R. A.**, & Ritchey, M. (2020). A database of news videos for investigating the dynamics of emotion and memory. *Behavior Research Methods*, 52, 1469-1479.
5. **Cooper, R. A.** & Ritchey, M. (2019). Cortico-hippocampal network connections support the multidimensional quality of episodic memory. *eLife*, 8:e45591.
6. **Cooper, R. A.**, Kensinger, E. A., & Ritchey, M. (2019). Memories fade: The relationship between memory vividness and remembered visual salience. *Psychological Science*, 30(5), 657-668.
7. Lazzaro, S. C., Weidinger, L., **Cooper, R. A.**, Baron-Cohen, S., Moutsiana, C., & Sharot, T. (2019). Social conformity in autism. *Journal of Autism and Developmental Disorders*, 49, 1304-1315.
8. **Cooper, R.A.** & Simons, J.S. (2019). Exploring the neurocognitive basis of episodic recollection in autism. *Psychonomic Bulletin & Review*, 26, 163-181.
9. **Cooper, R. A.**, Richter, F. R., Bays, P. M., Plaisted-Grant, K. C., Baron-Cohen, S., & Simons, J. S. (2017). Reduced hippocampal functional connectivity during episodic memory retrieval in autism. *Cerebral Cortex*, 27, 888-902.
10. **Cooper, R. A.**, Plaisted-Grant, K. C., Baron-Cohen, S., & Simons, J. S. (2017). Eye movements reveal a dissociation between memory encoding and retrieval in adults with autism. *Cognition*, 159, 127-138.
11. Richter, F. R.*, **Cooper, R. A.***, Bays, P. M., & Simons, J. S. (2016). Distinct neural mechanisms underlie the success, precision, and vividness of episodic memory. *eLife*, 5:e18260.

12. **Cooper, R. A.**, Plaisted-Grant, K. C., Baron-Cohen, S., & Simons, J. S. (2016). Reality monitoring and metamemory in adults with autism spectrum conditions. *Journal of Autism and Developmental Disorders*, 46, 2186-98.
13. **Cooper, R. A.**, Plaisted-Grant, K. C., Hannula, D. E., Ranganath, C., Baron-Cohen, S., & Simons, J. S. (2015). Impaired recollection of visual scene details in adults with autism spectrum conditions. *Journal of Abnormal Psychology*, 124, 565-575.

*equal contribution

PROFESSIONAL SERVICE

Ad Hoc Reviewer

Ann. N. Y. Acad. Sci – Autism – Autism Research – Biological Psychiatry: CNNI – Cerebral Cortex – Consciousness & Cognition – Cortex – Hippocampus – Human Brain Mapping – Journal of Abnormal Psychology – Journal of Autism and Developmental Disorders – Journal of Experimental Psychology: General – Journal of Gerontology: Psychological Sciences – Journal of Neuroscience – Learning and Memory – Molecular Autism – Network Neuroscience – NeuroImage – Neuropsychologia – Research in Autism Spectrum Disorders – Royal Society Open Science – Science Advances – Social Cognitive and Affective Neuroscience

See: <https://publons.com/author/1531130/rose-cooper#profile>

Memberships

- Cognitive Neuroscience Society
- Society for Neuroscience

Other Duties

March 2021	Organizer & Chair of a Cognitive Neuroscience Society symposium – <i>The Network Structure of Episodic Thought</i>
2018-2019	Co-organizer, Memory Messabout Meeting, Boston University
2017-2018	Co-organizer, BC Neuroscience Data Club, Boston College

RESEARCH

Technical Skills

- Experimental design, quantitative statistics, hierarchical linear modelling, machine learning, neuroimaging (fMRI + EEG), eye-tracking
- Proficient in R, Python, and Matlab for data analysis and visualisation
- Coursera IBM [Data Science](#) and [Machine Learning](#) specializations
- Version control using Github and GitLab

Experiment Data & Code

GitHub: [rose-cooper](#)

Cooper et al. (2020), *bioRxiv*:

thememolab.org/paper-camcan-pmn/

Cooper & Ritchey (2019), *J Neurosci*:

thememolab.org/paper-bindingfmri/

Samide et al. (2019), *Beh Res Meth*:

thememolab.org/paper-videonorming/

Cooper & Ritchey (2019), *eLife*:

thememolab.org/paper-orbitfmri/

Cooper et al. (2019), *Psych Sci*:

osf.io/cuz8g/

MENTORING AND TEACHING

Undergraduate Research Assistants

2017-21 Cayley Bliss; Emily Iannazzi; Emily Janin; Elizabeth Judge; Samantha Murphy; Mary Nanna; Julia Napoli; Jenna Phelan; Rebecca Suthard; Zoe Ting

Senior Thesis Students

2019-20 Natale Schmitz, Boston College

2018-19 Maria Khoudary, Boston College

Additional Mentoring Roles

2019-20 Advisor to neuroscience undergraduate students within the international Action Potential Advising Program (APAP) from <https://www.simplyneuroscience.org/>

Seminar Teaching

2014-16 University of Cambridge:

- Statistics
- Psychological Enquiry and Methods
- Cognitive and Experimental Psychology
- Cognitive Psychology, Practical Classes

Training Courses

2019-20 Teaching in the U.S. classroom (Boston College, Center for Teaching Excellence)

MEDIA

Article on Richter*, Cooper* et al. (2016; eLife): “Memory lane has a three-way fork”
theatlantic.com/science/archive/2016/10/memory-lane-has-a-three-way-fork/505250/

Article on Cooper, Kensinger, & Ritchey (2019, Psychological Science): “Like old photographs, memories fade over time” sciencedaily.com/releases/2019/04/190405080919.htm

INVITED TALKS

Functional heterogeneity of the posterior medial network during movie watching. (April, 2021). *Dynamic Memory Lab, University of California, Davis, USA.*

The cognitive and neural architecture of episodic memory. (December, 2020). *Affective and Brain Sciences Lab, Northeastern University, USA.*

Cortico-hippocampal networks supporting the reactivation of past events. (May, 2019). *Schacter Memory Lab, Harvard University, USA.*

The neurocognitive basis of episodic memory in autism. (April, 2019). *Frith Prize lecture, Experimental Psychology Society Meeting, University of Manchester, UK. Watch here: youtu.be/pv-liiA18vY*

Brain networks supporting the reconstruction of past events. (March, 2019). *Brown Cognition Seminar Series, Brown University, USA.*

Brain networks supporting the composition and precision of episodic memory. (October, 2018). *Memory Disorders Research Society annual meeting, Toronto, Canada.*

Episodic memory reconstruction in autism. (July, 2018). *Trends in Psychology Summit, Harvard University, Boston, USA.*

Neural mechanisms of episodic memory reconstruction. (February, 2018). *Boston University Memory Meeting, Boston, USA.*

Investigating recollection in adults with autism spectrum conditions. (November, 2014). *Autism Research Centre talk series, Cambridge, UK.*

CONFERENCE PRESENTATIONS

Talks

Functional heterogeneity of the posterior medial episodic network. (March, 2021). *Cognitive Neuroscience Society, Virtual Meeting.*

Progression from feature-specific brain activity to hippocampal binding during episodic encoding. (May, 2020). *Cognitive Neuroscience Society, Virtual Meeting.*

Memories fade: Changes in reconstructed perceptual quality over time. (May, 2019). *Context and Episodic Memory Symposium. Philadelphia, USA.*

Posters

- Cooper, R. A. & Ritchey M. (August, 2020). Mapping the functional dynamics of the posterior medial episodic network. *Context and Episodic Memory Symposium, Virtual*.
- Schmidt, H., Cooper, R. A., & Ritchey, M. (May, 2020). Temporal dynamics supporting the multidimensional quality of episodic memory. *Cognitive Neuroscience Society, Virtual Meeting*.
- Cooper, R. A. & Ritchey M. (May, 2020). Progression from feature-specific brain activity to hippocampal binding during episodic encoding. *Cognitive Neuroscience Society, Virtual Meeting*.
- Cooper, R. A. & Ritchey M. (October, 2019). Probing intra-network dynamics of the posterior medial system during episodic memory retrieval. *Society for Neuroscience Annual Meeting, Chicago, USA*.
- Schmidt, H., Samide, R., Cooper, R. A., & Ritchey, M. (May, 2019). News flash! Investigating the dynamics of emotional memory using real-life event videos. *Context and Episodic Memory Symposium, Philadelphia, USA*.
- Samide, R., Cooper, R. A., & Ritchey, M. (March, 2019). From hurricanes to homecomings: A database of news broadcast videos for investigating the dynamics of emotional memory. *Cognitive Neuroscience Society Annual Meeting, San Francisco, USA*.
- Cooper, R. A. & Ritchey M. (November, 2018). Brain networks supporting the composition and precision of episodic memory reconstruction. *Society for Neuroscience Annual Meeting, San Diego, USA*.
- Cooper, R. A. & Ritchey M. (March, 2018). Effects of negative emotion on item-specific and spatial-context memory precision. *Cognitive Neuroscience Society Annual Meeting, Boston, USA*.
- Cooper, R. A., Richter, F. R., Bays, P. M., Plaisted-Grant, K. C., Baron-Cohen, S., & Simons, J. S. (April, 2017). Reduced hippocampal – fronto-parietal control network connectivity during memory retrieval in adults with autism. *Cambridge Memory Meeting, Cambridge, UK*.
- Cooper, R. A., Richter, F. R., Bays, P. M., Plaisted-Grant, K. C., Baron-Cohen, S., & Simons, J. S. (July, 2016). Reduced functional connectivity during episodic memory retrieval in adults with autism. *International Conference on Memory, Budapest, Hungary*.
- Cooper, R. A., Plaisted-Grant, K. C., Baron-Cohen, S., & Simons, J. S. (June, 2016). Eye movements reveal a dissociation between memory encoding and retrieval in adults with autism. *Cambridge Neuroscience External Review, Cambridge, UK*.
- Richter, F. R., Cooper, R. A., Bays, P. M., & Simons, J. S. (April, 2016). Distinct neural mechanisms underlie the success, precision, and vividness of episodic memory. *Cognitive Neuroscience Society Annual Meeting, New York, USA*.
- Cooper, R. A., Plaisted-Grant, K. C., Baron-Cohen, S., & Simons, J. S. (April, 2016). Using eye-tracking to investigate long-term memory encoding and retrieval in adults with autism spectrum conditions. *Cognitive Neuroscience Society Annual Meeting, New York, USA*.

Cooper, R. A., Plaisted-Grant, K. C., Hannula, D. E., Ranganath, C., Baron-Cohen, S., & Simons, J.S. (May, 2015). Impaired recollection of visual scene details in adults with autism spectrum conditions. *Cambridge Memory Meeting, Cambridge, UK.*
