

Rose Cooper

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last updated: Dec 2020

ACADEMIC HISTORY

- 2017 – Boston College | Postdoctoral Scholar**
Department of Psychology and Neuroscience, Memory Modulation Lab
Supervisor: Dr. Maureen Ritchey
Research theme: The cognitive and neural structure of episodic memory
- 2013 – 2017 University of Cambridge | PhD Psychology**
Department of Psychology, Memory Lab
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, Affective Brain Lab
Supervisors: Professor Tali Sharot & Dr. Stephanie Lazzaro
Award: Distinction
- 2009 – 2012 University of Nottingham | BSc (Hons) Psychology**
Supervisor: Dr. Danielle Ropar
Award: First Class
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AWARDS AND FUNDING

- 2019** Frith Prize, Experimental Psychology Society: *Exceptional PhD thesis*
- 2019** Kavli Summer Institute in Cognitive Neuroscience (SICN) Fellow
- 2019** Boston College Department of Psychology Trainee Education Grant
- 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: *Highest degree*
- 2012** University of Nottingham Psychology Prize: *Highest grades*
- 2011** University of Nottingham Psychology Prize: *Highest grades*

PUBLICATIONS

1. Ritchey, M.* & **Cooper, R. A.*** (2020). Deconstructing the posterior medial episodic network. *Trends in Cognitive Sciences*, 24(6), 451-465.
2. **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.
3. 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.
4. **Cooper, R. A.** & Ritchey, M. (2019). Cortico-hippocampal network connections support the multidimensional quality of episodic memory. *eLife*, 8:e45591.
5. **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.
6. 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.
7. **Cooper, R. A.** & Simons, J. S. (2019). Exploring the neurocognitive basis of episodic recollection in autism. *Psychonomic Bulletin & Review*, 26, 163-181.
8. **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.
9. **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.
10. 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.
11. **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.
12. **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.

Preprints

Cooper, R. A., Kurkela, K. A., Davis, S. W., & Ritchey, M. (2020). Mapping the organization and dynamics of the posterior medial network during movie watching. *bioRxiv*, <https://doi.org/10.1101/2020.10.21.348953>

*equal contribution

INVITED TALKS

- Cooper, R. A.** (May, 2019). Cortico-hippocampal networks supporting the reactivation of past events. Schacter Memory Lab, Harvard University, USA.
- Cooper, R. A.** (April, 2019). The neurocognitive basis of episodic memory in autism. Frith Prize lecture, Experimental Psychology Society Meeting, University of Manchester, UK. *Watch my talk here:* youtu.be/pv-liiA18vY
- Cooper, R. A.** (March, 2019). Brain networks supporting the reconstruction of past events. Brown Cognition Seminar Series, Brown University, USA.
- Cooper, R. A.** (October, 2018). Brain networks supporting the composition and precision of episodic memory. Memory Disorders Research Society annual meeting, Toronto, Canada.
- Cooper, R. A.** (July, 2018). Episodic memory reconstruction in autism. Trends in Psychology Summit, Harvard University, Boston, USA.
- Cooper, R. A.** (February, 2018). Neural mechanisms of episodic memory reconstruction. Boston University Memory Meeting, Boston, USA.
- Cooper, R. A.** (November, 2014). Investigating recollection in adults with autism spectrum conditions. Autism Research Centre talk series, Cambridge, UK.
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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 Gerontology: Psychological Sciences – Journal of Neuroscience – Learning and Memory – Molecular Autism – Network Neuroscience – NeuroImage – Neuropsychologia – Research in Autism Spectrum Disorders – Royal Society Open Science – Social Cognitive and Affective Neuroscience

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

Memberships

- Cognitive Neuroscience Society
- Society for Neuroscience

Other Duties

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

- Advanced neuroimaging data analysis (fMRI + EEG), eye tracking, statistical modelling of behavioural data, machine learning
- Proficient in R, Python, and Matlab for data analysis and visualization
 - Training through in-lab workshops & programs (Kavli Summer Institute in Cognitive Neuroscience; Methods in Neuroscience at Dartmouth)
 - Coursera data science and machine learning courses (see [certificates](#))
- Version control using Github and GitLab

Data & Code

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/

TEACHING AND MENTORING

Seminar Teaching

- 2014-16 University of Cambridge:
- Statistics
 - Psychological Enquiry and Methods
 - Cognitive and Experimental Psychology
 - Cognitive Psychology, Practical Classes

Undergraduate Research Assistants

2017-20 Cayley Bliss; Emily Iannazzi; Emily Janin; Elizabeth Judge; Samantha Murphy; Mary Nanna; Julia Napoli; Jenna Phelan; Rebecca Suthard

Senior Thesis Students

2019-20 Natale Schmitz, Boston College
2018-19 Maria Khoudary, Boston College

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

CONFERENCE PRESENTATIONS

Talks

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

Cooper, R. A. (May, 2019). Memories fade: Changes in reconstructed perceptual quality over time. 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.
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