

# ROSE COOPER

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## ACADEMIC POSITIONS

2017 – present      Postdoctoral Scholar, Boston College  
Memory Modulation Lab, Department of Psychology and Neuroscience  
Supervisor: Dr. Maureen Ritchey  
My research uses behavioural and neuroimaging methods to investigate how episodic memories are formed and reconstructed.

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## EDUCATION

2013 – 2017      PhD Psychology, University of Cambridge  
Memory Lab, Department of Psychology  
Supervisor: Professor Jon Simons  
Thesis title: The neurocognitive basis of recollection in autism

2012 – 2013      MSc Cognitive & Decision Sciences, University College London  
Affective Brain Lab, Department of Psychology  
Supervisors: Professor Tali Sharot & Dr. Stephanie Lazzaro  
Award: Distinction

2009 – 2012      BSc (Hons) Psychology, University of Nottingham  
Supervisor: Dr. Danielle Ropar  
Award: First Class

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## PUBLICATIONS

- Ritchey, M.\* & Cooper, R. A.\* (in press). Deconstructing the posterior medial episodic network. *Trends in Cognitive Sciences*.
- Cooper, R. A. & Ritchey, M. (2020). Progression from feature-specific brain activity to hippocampal binding during episodic encoding. *The Journal of Neuroscience*, 40(8), 1701-1709.
- Samide, R., Cooper, R. A., & Ritchey, M. (2019). A database of news videos for investigating the dynamics of emotion and memory. *Behavior Research Methods*, doi: 10.3758/s13428-019-01327-w.
- Cooper, R. A. & Ritchey, M. (2019). Cortico-hippocampal network connections support the multidimensional quality of episodic memory. *eLife*, 8:e45591.
- 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.
- 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.
- Cooper, R.A. & Simons, J.S. (2019). Exploring the neurocognitive basis of episodic recollection in autism. *Psychonomic Bulletin & Review*, 26, 163-181.
- 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.
- 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.
- 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.
- 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.

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*

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## AWARDS AND FUNDING

2019	Kavli Summer Institute in Cognitive Neuroscience (SICN) Fellow
2019	Boston College Postdoctoral Association, Knowledge Dissemination Award
2019	Frith Prize for an exceptional PhD thesis, Experimental Psychology Society
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 Award
2013-16	St John's College, Cambridge Benefactors' Scholarship
2013-16	UK Economic and Social Research Council full PhD Studentship
2012	British Psychological Society Undergraduate Award for highest degree score
2012	University of Nottingham Undergraduate Psychology Prize
2011	University of Nottingham Undergraduate Psychology Prize

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## 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

2017-19 (Boston College, Memory Modulation Lab)	
Cayley Bliss	Emily Iannazzi
Emily Janin	Elizabeth Judge
Samantha Murphy	Mary Nanna

Julia Napoli          Jenna Phelan  
Rebecca Suthard

## Undergraduate senior thesis students

2018-19      Maria Khoudary, Boston College (now Research Assistant at Duke)  
2019-20      Natale Schmitz, Boston College

## Training Courses

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

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## PROFESSIONAL SERVICE

### Ad Hoc Reviewer

<i>Annals of the New York Academy of Sciences</i>	<i>Journal of Autism and Developmental Disorders</i>
<i>Autism</i>	<i>Learning and Memory</i>
<i>Autism Research</i>	<i>Molecular Autism</i>
<i>Biological Psychiatry: CNNI</i>	<i>Network Neuroscience</i>
<i>Cerebral Cortex</i>	<i>NeuroImage</i>
<i>Cortex</i>	<i>Neuropsychologia</i>
<i>Human Brain Mapping</i>	<i>Research in Autism Spectrum Disorders</i>
<i>Journal of Abnormal Psychology</i>	<i>Social Cognitive and Affective Neuroscience</i>

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

### Memberships

- Cognitive Neuroscience Society
- Society for Neuroscience

### Other Duties

2017-present      Co-organizer, BC Neuroscience Data Club, Boston College  
2018-present      Co-organizer, Memory Messabout Meeting, Boston University

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## OPEN RESEARCH

### Preregistered Experiments

Cooper, Kensinger, & Ritchey (2019), *Psychological Science*: [osf.io/nsj65/](https://osf.io/nsj65/)

### Data, Stimuli, and Code Sharing

Cooper, R. A. & Ritchey, M. (2019), *J Neurosci*: [thememolab.org/paper-bindingfmri/](https://thememolab.org/paper-bindingfmri/)

Cooper & Ritchey (2019), *eLife*: [thememolab.org/paper-orbitfmri/](https://thememolab.org/paper-orbitfmri/)

Cooper, Kensinger, & Ritchey (2019), *Psychological Science*: [osf.io/cuz8g/](https://osf.io/cuz8g/)

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## RESEARCH MEDIA COVERAGE

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/](https://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](https://sciencedaily.com/releases/2019/04/190405080919.htm)

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## 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. [youtu.be/pv-liiA18vY](https://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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## CONFERENCE PRESENTATIONS

### Talks

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

Cooper, R. A. & Ritchey M. (May, 2019). Memories fade: Changes in reconstructed perceptual quality over time. Context and Episodic Memory Symposium. Philadelphia, USA.

### Posters

Schmidt, H., Cooper, R. A., & Ritchey, M. (upcoming - May, 2020). Temporal dynamics supporting the multidimensional quality of episodic memory. Cognitive Neuroscience Society, Virtual Meeting.

Cooper, R. A. & Ritchey M. (upcoming - 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.