

## 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
- 

## 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

see [Google Scholar](#)

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

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](https://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.*

---

## 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 –  
                                 *The Network Structure of Episodic Thought*

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 IBM applied **data science** and machine learning certificates
- Version control using **Github** and GitLab

### Data & Code

*GitHub:* [rose-cooper](https://github.com/rose-cooper)

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

[thememolab.org/paper-camcan-pmn/](https://thememolab.org/paper-camcan-pmn/)

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

[thememolab.org/paper-bindingfmri/](https://thememolab.org/paper-bindingfmri/)

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

[thememolab.org/paper-videonorming/](https://thememolab.org/paper-videonorming/)

Cooper & Ritchey (2019), *eLife*:

[thememolab.org/paper-orbitfmri/](https://thememolab.org/paper-orbitfmri/)

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

[osf.io/cuz8g/](https://osf.io/cuz8g/)

---

## TEACHING AND MENTORING

### Seminar Teaching

- |         |   |
|---------|---|
| 2014-16 | University of Cambridge:  |
|         | <ul style="list-style-type: none"> <li>➤ Statistics</li> <li>➤ Psychological Enquiry and Methods</li> <li>➤ Cognitive and Experimental Psychology</li> <li>➤ Cognitive Psychology, Practical Classes</li> </ul> |

### 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/](http://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](http://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*.
-