

MAUREEN RITCHEY

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ACADEMIC HISTORY

2016 – present	Boston College Assistant Professor, Department of Psychology
2011 – 2016	University of California, Davis Postdoctoral Scholar, Center for Neuroscience
2011	Duke University Ph.D., Psychology & Neuroscience Cognitive Neuroscience Admitting Program
2007	Duke University M.A., Psychology & Neuroscience
2005	University of Notre Dame B.S., Mathematics, <i>magna cum laude</i> B.A., Psychology, <i>magna cum laude</i>

PUBLICATIONS

- Cooper, R.A., Kensinger, E.A., & **Ritchey, M.** (in revision). Memories fade: Effects of emotion on remembered visual salience.
- Monge, Z.A., **Ritchey, M.**, & Cabeza, R. (in revision). Age-related differences in memory representational networks.
- Ritchey, M.**, Wang, S.-F., Yonelinas, A.P., & Ranganath, C. (in revision). Dissociable medial temporal lobe pathways for encoding emotional item and context information. *bioRxiv*, <https://doi.org/10.1101/248294>.
- Jonker, T.R., Dimsdale-Zucker, H.R., **Ritchey, M.**, Clarke, A., & Ranganath, C. (2018). Neural reactivation in parietal cortex enhances memory for episodically linked information. *Proceedings of the National Academy of Sciences*. <https://doi.org/10.1073/pnas.180006115>
- Rogers-Carter, M.M., Varela, J., Gribbons, K.B., Pierce, A.F., McGoey, M.T., **Ritchey, M.**, & Christianson, J.P. (2018). Insular cortex mediates approach and avoidance responses to social affective stimuli. *Nature Neuroscience*, 21(3), 404-414.

- Dimsdale-Zucker, H.R., **Ritchey, M.**, Ekstrom, A.D., Yonelinas, A.P., & Ranganath, C. (2018). CA1 and CA3 differentially support spontaneous retrieval of episodic contexts within human hippocampal subfields. *Nature Communications*, 9, 294.
- Ritchey, M.**, McCullough, A.M., Ranganath, C., & Yonelinas, A.P. (2017). Stress as a mnemonic filter: Interactions between medial temporal lobe encoding processes and post-encoding stress. *Hippocampus*, 27 (1): 77-88.
- Gruber, M.J., **Ritchey, M.**, Wang, S.-F., Doss, M.K., & Ranganath, C. (2016). Post-learning hippocampal dynamics promote preferential retention of rewarding events. *Neuron*, 89 (5), 1110-20.
- Wang, S.-F., **Ritchey, M.**, Libby, L.A., & Ranganath, C. (2016). Functional connectivity based parcellation of the human medial temporal lobe. *Neurobiology of Learning and Memory*, 134 (A), 123-134.
- Yonelinas, A.P. & **Ritchey, M.** (2015). The slow forgetting of emotional episodic memories: An emotional binding account. *Trends in Cognitive Sciences*, 19(5), 259-267.
- McCullough, A.M. **Ritchey, M.**, Ranganath, C., & Yonelinas, A.P. (2015). Differential effects of stress-induced cortisol responses on recollection and familiarity based recognition memory. *Neurobiology of Learning and Memory*, 123, 1-10.
- Ritchey, M.**, Montchal, M.E., Yonelinas, A.P., & Ranganath, C. (2015). Delay-dependent contributions of medial temporal lobe regions to episodic memory retrieval. *eLife*, 4:e05025.
- Wing, E.A., **Ritchey, M.**, & Cabeza, R. (2015). Reinstatement of individual past events revealed by the similarity of distributed activation patterns during encoding and retrieval. *Journal of Cognitive Neuroscience*. 27(4), 679-691.
- Dew, I.T.Z., **Ritchey, M.**, LaBar, K.S., & Cabeza, R. (2014). Prior perceptual processing enhances the effect of emotional arousal on the neural correlates of memory retrieval. *Neurobiology of Learning and Memory*. 112, 104-113.
- Ritchey, M.**, Yonelinas, A.P., & Ranganath, C. (2014). Functional connectivity relationships predict similarities in task activation and pattern information during associative memory encoding. *Journal of Cognitive Neuroscience*, 26 (5), 1085-1099.
- Ritchey, M.**, Wing, E.A., LaBar, K.S., & Cabeza, R. (2013). Neural similarity between encoding and retrieval is related to memory via hippocampal interactions. *Cerebral Cortex*, 23(12), 2818-2828.
- Ranganath, C. & **Ritchey, M.** (2012). Two cortical systems for memory-guided behavior. *Nature Reviews Neuroscience*, 13, 713-726.
- Ritchey, M.**, LaBar, K.S., & Cabeza, R. (2011). Level of processing modulates the neural correlates of emotional memory formation. *Journal of Cognitive Neuroscience*. 23 (4), 757-771.
- Ritchey, M.**, Bessette-Symons, B., Hayes, S.M., & Cabeza R. (2011). Emotion processing in the aging brain is modulated by elaboration. *Neuropsychologia*, 49 (4), 640-650.
- Ritchey, M.***, Dolcos, F.*, Eddington, K.M.*, Strauman, T., & Cabeza R. (2011). Neural correlates of emotional processing in depression: Changes with cognitive behavioral therapy and predictors of treatment response. *Journal of Psychiatric Research*, 45 (5), 577-587. *denotes equal contributions

Murty, V.P.* , **Ritchey, M.***, Adcock, R.A., & LaBar, K.S. (2010). fMRI studies of successful emotional memory encoding: A quantitative meta-analysis. *Neuropsychologia*, 48 (12), 3459-3469. *denotes equal contributions

Ritchey, M., Dolcos, F., & Cabeza, R. (2008). Role of amygdala connectivity in the persistence of emotional memories over time: An event-related fMRI investigation. *Cerebral Cortex*, 18(11), 2494-2504.

Dillon, D.G., **Ritchey, M.**, Johnson, B.D., & LaBar, K.S. (2007). Dissociable effects of conscious emotion regulation strategies on explicit and implicit memory. *Emotion*, 7(2), 354-265.

Marsolek, C.J., Schnyer, D.M., Deason, R.G., **Ritchey, M.**, & Verfaellie, M. (2006). Visual anti-priming: Evidence for ongoing adjustments of superimposed object representations. *Cognitive, Affective, & Behavioral Neuroscience*, 6(3), 163-174.

Siegler, B.A., **Ritchey, M.**, & Rubin, J. (2005). Spike timing dependent plasticity as a mechanism for ocular dominance shift. *Neurocomputing*, 65, 181-188.

Book chapters

Gruber, M.J.* & **Ritchey, M.*** (forthcoming). Episodic memory modulation: How emotion and motivation shape the encoding and storage of salient memories. In M.S. Gazzaniga (Ed.), *The Cognitive Neurosciences* (6th ed.). Cambridge, MA: The MIT Press. *denotes equal contributions

Ritchey, M., Libby, L.A., & Ranganath, C. (2015). Cortico-hippocampal systems involved in memory and cognition: The PMAT framework. In Shane O'Mara & Marian Tsanov (Ed.), *The Connected Hippocampus*, Progress in Brain Research, Elsevier.

Arzi, A., Banerjee, S., Cox, J.C., ... **Ritchey, M.**, ... Wood, S. (2014). The significance of cognitive neuroscience: Findings, applications, and challenges. In M.S. Gazzaniga (Ed.), *The Cognitive Neurosciences* (5th ed.). Cambridge, MA: The MIT Press.

Commentaries

Ritchey, M. (2018). Memory modulation: An introduction to the special issue. *Cognitive Neuroscience*, <https://doi.org/10.1080/17588928.2018.1519531>.

Ritchey, M., Murty, V.P., & Dunsmoor, J.E. (2016). Adaptive memory systems for remembering the salient and the seemingly mundane. *Behavioral and Brain Sciences*, e221.

Venkatraman, V., **Ritchey, M.**, & Reeck, C. (2009). Post-choice revaluation of hedonic preferences: Insights from functional imaging. *Frontiers in Human Neuroscience: General Commentary*, 3(18), 1-3.

RESEARCH SUPPORT

External Research Support

2019-2021 – Brain and Behavioral Research Foundation

NARSAD Young Investigator Grant

PI, “Neural mechanisms supporting regulation of emotional memories”

Total costs: \$69,273

2018-2020 – National Institutes of Health/ NIMH

R03MH116872

Co-I, "Interactions between affective and sensory regions during the experience and recollection of emotional events" (PI: Elizabeth Kensinger)

Total costs: \$156,500

2015–2019 – National Institutes of Health/ NIMH

K99/R00MH103401, Pathway to Independence Award

PI, "Emotional modulation of human memory processes and cortico-hippocampal systems"

Total costs: \$914,092

2008–2011 – National Institutes of Health/ NIMH

F31MH085384, Ruth L. Kirschstein Predoctoral National Research Service Award

Fellow, "Neuroimaging of emotional association formation and subsequent effect on memory"

Boston College Internal Research Support

Summer/Fall 2018 Boston College Research Expense Grant, \$2000

AWARDS & HONORS

Induction into the Memory Disorders Research Society, 2016

Rising Star Award, Association for Psychological Science, 2015

Laird Cermak Award, Memory Disorders Research Society, 2015

Summer Institute in Cognitive Neuroscience Fellow, Squaw Valley, 2013

Annual Neuroscience Poster Contest: First Prize, UC Davis Center for Neuroscience, 2012

Summer Institute in Cognitive Neuroscience Fellow, Santa Barbara, 2012

Institute for Pure and Applied Mathematics: Mathematics in Brain Imaging Travel Award, UCLA, 2008

Health Emotions Research Institute Travel Award, Wisconsin Symposium on Emotion, 2008

National Science Foundation Graduate Research Fellowship Honorable Mention, 2007

James B. Duke Fellowship, Duke University, 2005–2009

National Science Foundation Research Experience for Undergraduates Summer Fellow, 2003, 2004

Glenna R. Joyce Scholarship, University of Notre Dame, 2001–2005

Notre Dame Scholar, University of Notre Dame, 2001

National Merit Scholar, 2001

TEACHING

Courses taught

Cognitive Neuroscience: Exploring Mind and Brain, PSYC3371, Spring 2019

Research Practicum in Cognitive Neuroscience, PSYC4477, Fall 2018

Cognitive Neuroscience: Exploring Mind and Brain, PSYC3371, Spring 2018

Course rating: 4.45/5; Instructor rating: 4.76/5 (N=30 out of 34)

The Hippocampus, PSYC5577, Fall 2017

Course rating: 4.67/5; Instructor rating: 4.67/5 (N=6 out of 6)

Cognitive Neuroscience: Exploring Mind and Brain, PSYC3371, Spring 2017

Course rating: 4.18/5; Instructor rating: 4.39/5 (N=18 out of 24)

Guest lectures

fMRI Data Analysis, Fundamentals of Cognitive Neuroimaging, UC Davis, 2015

Emotion & Memory, Human Learning & Memory, UC Davis, 2013

Memory I, Biological Bases of Behavior, Duke University, 2008

Emotion and the Brain, Biological Bases of Behavior, Duke University, 2007
Cognitive Neuroscience, Duke Talent Identification Program Neuroscience Course, 2006

Instructor assistantship

Biological Bases of Behavior, Duke University, 2008
Biological Bases of Behavior, Duke University, 2007
Introduction to Cognitive Neuroscience, Duke University, 2007

Other teaching-related activities

Boston College Psychology Monday Methods Meetings (organizer & speaker), 2016—present
Lab Instructor, Multi-voxel pattern analysis. The Hippocampus: From Circuits to Cognition, Bordeaux, France, 2016
Co-Organizer & Instructor, MTL Tracing Bootcamp, UC Davis, 2013
The Duke Reader Project (writing mentorship program), 2012, 2013
Preparing Future Faculty Program, Duke University, 2010—2011

PROFESSIONAL ACTIVITIES

2018—present Program Committee Member, *Context and Episodic Memory Symposium*
2018 Guest Editor, *Cognitive Neuroscience*, Special Issue on Memory Modulation, 2018
2014 Panelist, *Navigating the job market after graduate school*, Association for Psychological Science Annual Convention

Ad hoc reviewing

Behavioural Brain Research; Cerebral Cortex; Cognition and Emotion; Cognitive, Affective, & Behavioral Neuroscience; Cognitive Neuroscience; Cortex; Emotion; eLife; eNeuro; Frontiers in Integrative Neuroscience; Hippocampus; Human Brain Mapping; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Neuroscience; Learning & Memory; Memory; Nature Neuroscience; Neurobiology of Aging; Neurobiology of Learning and Memory; NeuroImage; Neuron; Proceedings of the National Academy of Sciences; Scientific Reports; Social Cognitive and Affective Neuroscience; Quarterly Journal of Experimental Psychology

See: <https://publons.com/author/1351572/maureen-ritchey#profile>

DEPARTMENTAL & UNIVERSITY ACTIVITIES

2019—present Pre-Health Advising Committee
2018—present Departmental Future Directions Committee
2017—present Psychology Colloquium Committee (Chair: 2018—2019)
2017—present Departmental Graduate Admissions Committee
2016—present Departmental Technological and Methodological Training Committee
2013—2014 Judge, Center for Neuroscience Annual Neuroscience Poster Contest, UC Davis
2012—2013 Judge, Interdisciplinary Graduate and Professional Student Symposium, UC Davis
2006—2010 Center for Cognitive Neuroscience Retreat Committee Member, Duke U.
2005—2008 Cognitive Neuroscience Admitting Program Steering Committee Member, Duke U.
2008 Cognitive Neuroscience Student Journal Club Coordinator, Duke U.

MENTORING

PhD students

Kyle Kurkela	2018—present
Rosalie Samide	2016—present

Postdoctoral trainees

Rose Cooper	2017—present
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Full-time research assistants

Helen Schmidt	2018—present
Kyle Kurkela	2016—2018
Max Bluestone	2016—2018

Position following graduation

PhD student at Boston College
MS student at Dartmouth

Undergraduate senior thesis supervision

Emily Iannazzi Ψ	2018—2019
Maria Khoudary Ψ	2018—2019
Kelly Vogel *	2017—2018

Position following graduation

PsyD student at Loma Linda

* MCAS honors, Ψ Psychology honors

Undergraduate research fellows

2018 – Maria Khoudary (spring); Emily Iannazzi (summer); Samantha Murphy (fall); Julia Napoli (fall)
2017 – Rebecca Suthard (summer, fall); Eric Sanfilippo (summer)

Other trainee mentoring

Danielle Lafferty (MA committee)	2018—present
Allison Foilb (PhD committee)	2018—present
Rachel Walker (PhD committee)	2018—present
Ryan Daley (MA committee)	2018—present
Dylan Spets (MA committee)	2018—present
Sarah Kark (NRSA F31 contributor)	2017—2019

Research mentoring at UC Davis

Halle Zucker (PhD)	2013—2016
Andrew McCullough (PhD)	2011—2016
Shao-Fang Wang (RA)	2013—2015
Manoj Doss (RA)	2011—2013
Garrett O'Day (UG thesis)	2015—2016
Aneil Dhillon (UG thesis)	2013—2014

Position following graduation

Postdoc at Columbia
PhD student at Stanford
PhD student at U. Chicago
PhD student at Purdue

CONFERENCE & INVITED TALKS

2018 – *Memories fade: Interactions of perceptual and emotional salience during memory reconstruction.* Conference presentation, Memory Disorders Research Society Meeting, Toronto, ON.

Invited speaker, Summer Institute in Cognitive Neuroscience, Squaw Valley, CA.

2017 – Invited speaker, Boston University Center for Memory & Brain Seminar Series, Boston, MA.

Emotional modulation of the neural systems supporting episodic memory. Symposium speaker, Society of Biological Psychiatry Meeting, San Diego, CA.

Emotional modulation of memory encoding and consolidation processes. Invited speaker, Memory Reactivation Workshop, Cardiff, UK.

Separable neural systems for encoding emotion and context information in episodic memory. Conference presentation, Context and Episodic Memory Symposium, Philadelphia, PA.

Invited speaker, Harvard University Cognition, Brain, & Behavior Research Seminar, Cambridge, MA.

Invited speaker, VA Boston Neuroimaging and Neuropsychology Lecture Series, Boston, MA.

Invited speaker, McLean Hospital Center for Depression, Anxiety and Stress Research Speaker Series, Belmont, MA.

Invited speaker, Brandeis University Joint Biology/Neuroscience Colloquium, Waltham, MA.

2016 – *Emotion, stress and the medial temporal lobes.* Invited speaker, The Hippocampus: From Circuits to Cognition (Cajal Course), Bordeaux, France.

Questioning the role of the hippocampus in emotional memory. Conference presentation, Memory Disorders Research Society Meeting, Princeton, NJ.

Cortico-hippocampal systems involved in memory and emotion. Conference presentation, International Conference on Memory, Budapest, Hungary.

Stress as a mnemonic filter: Interactions between MTL learning processes and post-encoding stress. Conference presentation, International Conference on Memory, Budapest, Hungary.

2015 – *Post-encoding stress and its interactions with MTL learning processes.* Travel award conference presentation, Memory Disorders Research Society Meeting, Cambridge, UK.

2014 – *Medial temporal lobe responses during encoding predict the influence of post-encoding stress on memory.* Conference presentation, Bay Area Memory Meeting, Palo Alto, CA.

Identifying memory systems in the brain: Functional connectivity and pattern similarity approaches. Invited speaker at the UC Davis Imaging Research Center, Translational Cognitive and Affective Neuroscience Lab, Sacramento, CA.

2013 – *Medial temporal lobe subregions interact with functionally distinct systems.* Conference presentation, Context and Episodic Memory Symposium, Philadelphia, PA.

2012 – *Cortical systems representing context in episodic memory.* Conference presentation, Bay Area Memory Meeting, Davis, CA.

The science of human memory. Invited speaker, Evernote Corporation, Mountain View, CA.

RECENT POSTERS

Cooper, R.A., & **Ritchey, M.** (March 2018). Effects of negative emotion on item-specific and spatial-context memory precision. Poster presented at the Cognitive Neuroscience Society Annual Meeting, Boston, MA.

Kurkela, K., Samide, R., & **Ritchey, M.** (March 2018). Transient and sustained processes involved in encoding emotional information. Poster presented at the Cognitive Neuroscience Society Annual Meeting, Boston, MA.

Bluestone, M., Suthard, R., **Ritchey, M.** (November 2017). The neural dynamics of retrieving context-

dependent emotional associations. Poster presented at the Society for Neuroscience Annual Meeting, Washington, D.C.

Samide, R., Kurkela, K., & **Ritchey, M.** (November 2017). Effects of contextual reinstatement on retrieval of item-emotion associations. Poster presented at the Society for Neuroscience Annual Meeting, Washington, D.C.

Jonker, T.R., Dimsdale-Zucker, H.R., **Ritchey, M.**, Clarke, A., & Ranganath, C. (November 2017). Retrieval-related memory enhancement and reactivation in the posterior medial/core recollection network. Poster presented at the Society for Neuroscience Annual Meeting, Washington, D.C.

Jonker, T.R., **Ritchey, M.**, & Ranganath, C. (November 2016). Wearable technology and retrieval practice in a real-world environment. Poster presented at the Psychonomic Society Annual Meeting, Boston, MA.

Ritchey, M., Gruber, M.J., Dhillon, A.S., O'Day, G.M., & Ranganath, C. (November 2016). Effects of emotional anticipation on neural oscillations involved in context-guided prediction. Poster presented at the Society for Neuroscience Annual Meeting, San Diego, CA.

Ritchey, M., Wang, S.F., Yonelinas, A.P., & Ranganath, C. (June 2015). Disambiguating the neural bases of emotional memory with high-resolution imaging. Poster presented at the Organization of Human Brain Mapping Annual Meeting, Honolulu, HI.

Ritchey, M., Yonelinas, A.P., & Ranganath, C. (March 2015). Hippocampal and medial prefrontal contributions to item and context memory over time. Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

McCullough, A.M., **Ritchey, M.**, Ranganath, C., & Yonelinas, A.P. (March 2015). Basal cortisol levels and stress-induced cortisol responses are differentially related to processes underlying recognition memory. Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

Wang, S.F., **Ritchey, M.**, Libby, L.A., & Ranganath, C. (March 2015). Functional connectivity-based parcellation of the human medial temporal lobe. Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

Zucker, H., **Ritchey, M.**, Ekstrom, A.D., Yonelinas, A.P., & Ranganath, C. (March 2015). How the MTL represents spatial and temporal contexts: A high-resolution MRI investigation. Poster presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

Ritchey, M. (November 2014). Why we remember some things and not others: Cortico-hippocampal systems involved in memory and emotion. Talk presented at the Center for Cognitive Neuroscience, Duke University, Durham, NC.

Ritchey, M., McCullough, A.M., Ranganath, C., & Yonelinas, A.P. (November 2014). Medial temporal lobe responses during encoding predict the influence of post-encoding stress on memory. Poster to be presented at the Society for Neuroscience Annual Meeting, Washington, DC.

Gruber, M.J., **Ritchey, M.**, Wang, S.F., Doss, M.K., Düzel, E., & Ranganath, C. (November 2014). Reward motivation benefits memory via offline post-learning dynamics. Poster to be presented at the Society for Neuroscience Annual Meeting, Washington, DC.

Ritchey, M., Montchal, M.E., Yonelinas, A.P., & Ranganath, C. (November 2013). Delay-dependent changes in reactivation of context information during item recognition. Poster presented at the Society for Neuroscience Annual Meeting, San Diego, CA.