

ROSEMARY A. COWELL
rosie.cowell@colorado.edu

EDUCATION

2002 - 2006 PhD, Experimental Psychology, University of Oxford, UK
1998 - 2001 BA (Hons) Natural Sciences, University of Cambridge, UK

ACADEMIC POSITIONS

Jan 2023 - Associate Professor, Institute of Cognitive Science, University of Colorado Boulder
2020 - 2022 Associate Professor, Psychological and Brain Sciences, UMass Amherst
2013 - 2020 Assistant Professor, Psychological and Brain Sciences, UMass Amherst
2009 - 2013 Research Scientist, Department of Psychology, UCSD
2007 - 2009 Research Councils UK Academic Fellow, School of Computing, University of Kent, UK.
2008 Visiting Scholar, Computer Science and Engineering Department, UCSD
2006 - 2007 Post-doctoral Fellow, LEAD-CNRS, Université de Bourgogne, Dijon, France
2002 Research Assistant, Experimental Psychology, University of Cambridge, UK

GRANTS AND FUNDING

List includes external funding agencies only.

- 1) National Institutes of Health (Brain Initiative)
1RF1MH114277-01 (equivalent to R01)
Title: Using fMRI to Measure the Neural-level Signals Underlying Population-level Responses
Role: Contact PI
Co-PI: David Huber, UMass
Co-Is: Earl Miller, MIT; John Serences, UCSD
Total Costs: \$2,366,079
Date: 07/20/2017 - 05/30/2022
- 2) National Science Foundation CAREER Award
NSF 1554871
Title: Testing a unified theory of perception and memory in the medial temporal lobe
Role: PI
Total Costs: \$599,618
Date: 01/01/2016 -12/31/2021
- 3) NSF Research Experience for Undergraduates Supplement
NSF 1554871 (REU Supplement to CAREER Award)
Role: PI
Total Costs: \$7,970
Date: 06/11/2017 - 12/31/2021
- 4) US Airforce
FA8651-18-P-0058
Title: Application of Hierarchical Memory Models to Automatic Target Recognition Modeling and Simulation
Role: Academic Co-PI (UMass Subcontract to Novateur Research Solutions, LLC)
UMass Total Costs: \$45,000
Date: 08/15/2018 - 05/10-2019
- 5) NIMH R01-MH092345 (2010-2015)
Title: Adaptive allocation of attention during perception, working memory, and decision making.
Role: Co-I

PI: John Serences, UCSD
 Total Direct Costs: \$1,250,000
 Date: 2010–2015

AWARDS, HONORS AND FELLOWSHIPS

- CU Boulder Graduate School, Exceptional Graduate Faculty Mentor Award, 2025.
- NSF CAREER Award, January 2016.
- Election to the Memory Disorders Research Society, May 2014.
- Cermak Travel Award, Memory Disorders Research Society, 2013.
- Perception/Action Modeling Prize of the *Cognitive Science Society*, for first-authored paper: "Virtual Brain Reading: A connectionist approach to understanding fMRI", July 2009.
- Travel award from *Brain, A Journal of Neurology*, July 2009.
- Travel award from the British Academy, July 2009.
- Research Councils UK Academic Fellowship, October 2007 – September 2009.
- Newton Abraham Studentship in Biomedical Sciences, *Oxford University*, 2002-2005.

PUBLICATIONS

Italic author name indicates trainee under my supervision.

Archival Journal Articles

- *Gove, J., Sanders, D.M.W., Huber, D.E., and Cowell, R.A.* (2026). Age-related Impairments in Visual Recall Depend on What You Are Remembering. *Neuropsychologia*, 226: 109440. <https://doi.org/10.1016/j.neuropsychologia.2026.109440>
- *McCarter, A.C., Huber, D.E., & Cowell, R.A.* (2025). No evidence of a visual testing effect for novel, meaningless objects. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 51(7), 1122–1140. <https://doi.org/10.1167/jov.23.9.4776>
- *Savalia, T., Cowell, R.A.* and Huber, D.E. (2024). "Leap before you look": Conditions that promote procedural visuomotor adaptation without explicit, knowledge-based learning. *Journal of Experimental Psychology: Human Perception and Performance*, 50(8), 785.
- *Leger, K.R., Cowell, R.A.* and Gutchess, A. (2024) Do cultural differences emerge at different levels of representational hierarchy? *Memory & Cognition*, 52(2):241-253. <https://doi.org/10.3758/s13421-023-01459-7>
- *Sanders, D.M.W.* and **Cowell, R.A.** (2023). The locus of recognition memory signals in human cortex depends on the complexity of the memory representations. *Cerebral Cortex*, 33:17, 9835-9849. <https://doi.org/10.1093/cercor/bhad248>
- *Sadil, P.S., Cowell, R.A.* and Huber, D.E. (2023). The Push-Pull of Serial Dependence Effects: Every Response is both an Attraction to the Prior Response and a Repulsion from the Prior Stimulus. *Psychonomic Bulletin & Review*. <https://doi.org/10.3758/s13423-023-02320-3>
- *Nikiforova, M., Cowell, R.A.* and Huber, D.E. (2023). Gestalt formation promotes awareness of suppressed visual stimuli during binocular rivalry. *Visual Cognition*, 31:1, 18-42, DOI: 10.1080/13506285.2023.2192991.
- *Sadil, P., Cowell, R.A.* & Huber, D.E. (2022) A modeling framework for determining modulation of neural-level tuning from non-invasive human fMRI data. *Commun Biol* 5, 1244 (2022). <https://doi.org/10.1038/s42003-022-04000-9>
- *Sanders, D.M.W., Cowell, R.A., Castillo, J.,* and Starns, J. (2022) Boosting confidence without boosting performance: item strength creates the illusion of source accuracy, *Memory*, 30:9, 1172-1191, DOI: 10.1080/09658211.2022.2098338 *OSF project*: <https://osf.io/g3dyf/>
- *Jiang, Z., Sanders, D.M.W., Cowell, R.A.* (2022). Visual and Semantic Similarity Norms for a Photographic Image Stimulus Set Containing Recognizable Objects, Animals and Scenes. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-021-01732-0>
- **Cowell, R.A.** and Huber, D.E. (2020). Mechanisms of Memory: An Intermediate Level of Analysis and Organization. *Current Opinion in Behavioral Sciences*, 32: 65:71.
- **Cowell, R.A.**, Barense, M.D. and *Sadil, P.S.* (2019). A Roadmap for Understanding Memory: Decomposing Cognitive Processes into Operations and Representations. *eNeuro*, 12 June 2019, *ENEURO.0122-19.2019*. doi: <https://doi.org/10.1523/ENEURO.0122-19.2019>

- *Sadil, P.S., Potter, K., Huber, D.E. and Cowell, R.A. (2019). Connecting the dots without top-down knowledge: Evidence for rapidly-learned low-level associations that are independent of object identity. *Journal of Experimental Psychology: General*, 148(6): 1058-1070.*
- *Sadil, P.S., Cowell, R.A. and Huber, D.E. (2019). A hierarchical Bayesian state trace analysis for assessing monotonicity while factoring out subject, item, and trial level dependencies. *Journal of Mathematical Psychology*, 90: 118-131.*
- *Wilson, D.M., Potter, K., and Cowell, R.A. (2018). Recognition Memory Shielded from Semantic but not Perceptual Interference in Normal Aging. *Neuropsychologia*, 119: 448-463.*
- *Ross, D.A., Sadil, P.S., Wilson, D.M. and Cowell, R.A. (2018) Hippocampal Engagement during Recall depends on Memory Content. *Cerebral Cortex*, 28(8): 2685–2698.*
- *Newsome, R.N., Trelle, A.N., Hong, B., Smith, V.M., Jacob, A., Ryan, J.D., Rosenbaum, R.S., Cowell, R.A., & Barense, M.D. (2018). Dissociable contributions of thalamic nuclei to recognition memory: Novel evidence from a case of medial dorsal thalamic damage. *Learning and Memory*, 25(1): 31-44.*
- *Cowell, R.A., Leger, K. and Serences, J.T. (2017). Feature-Coding Transitions to Conjunction Coding with Progression through Visual Cortex. *Journal of Neurophysiology*, 118(6): 3194-3214.*
- *Sadil, P.S. and Cowell, R.A. (2017) A Computational Model of Mnemonic and Perceptual Deficits in Medial Temporal Lobe Amnesia. *Journal of Cognitive Neuroscience*, 29(6): 1075-1088.*
- *Martin, C.B., Cowell, R.A., Gribble, P.L., Wright, J., Köhler, S. (2016). Distributed category-specific recognition memory signals in human perirhinal cortex. *Hippocampus*, 26: 423-436.*
- *Ikeda, M.Z., Jeon, S.D., Cowell, R.A., Remage-Healey, L. (2015). Norepinephrine Modulates Coding of Complex Vocalizations in the Songbird Auditory Cortex Independent of Local Neuroestrogen Synthesis. *Journal of Neuroscience*, 35(25): 9356-68.*
- *Yeung, L-K., Ryan, J.D., Cowell, R.A., Barense, M.D. (2013). Recognition Memory Impairments Caused by False Recognition of Novel Objects. *Journal of Experimental Psychology: General*, 142(4): 1384-97.*
- *Cowell, R.A. & Cottrell, G.W. (2013). What evidence supports special processing for faces? A cautionary tale for fMRI interpretation. *Journal of Cognitive Neuroscience*, 25(11):1777-93.*
- *Cowell, R.A. (2012). Computational Models of Perirhinal Cortex Function. *Hippocampus*, 22: 1952-1964.*
- *Cowell, R.A., Bussey, T.J. & Saksida, L.M. (2012). Empiricists are from Venus, Modelers are from Mars: Reconciling Experimental and Computational Approaches in Cognitive Neuroscience. *Neuroscience and Biobehavioral Reviews*, 36(10): 2371-9.*
- *Forwood, S.E., Cowell, R.A., Bussey, T.J., and Saksida, L.M. (2012). Multiple Cognitive Abilities from a Single Cortical Algorithm. *Journal of Cognitive Neuroscience*, 24(9): 1807-25.*
- *Cowell, R.A. & French, R.M. (2011). Noise and the emergence of rules in category learning: A connectionist model. *IEEE Transactions on Autonomous Mental Development*, 3 (3): 194-206.*
- *van Dantzig, S., Cowell, R.A., Zeelenberg, R., Pecher, D. (2011). A sharp image or a sharp knife: Norms for the modality-exclusivity of 774 concept-property items. *Behavior Research Methods*, 43 (1): 145-154.*
- *McTighe, S.M., Cowell, R.A., Winters, B.D., Bussey, T.J. & Saksida, L.M. (2010) Paradoxical false memory for objects after brain damage. *Science*, 330: 1408-1410.*
- *Cowell, R.A., Bussey, T.J. & Saksida, L.M. (2010). Components of recognition memory: dissociable cognitive processes or just differences in representational complexity? *Hippocampus*, 20 (11): 1245-1262.*
- *Huber, D.E. & Cowell, R.A. (2010). Theory-driven modeling or model-driven theorizing? A comment on McClelland et al./Griffiths et al. *Trends in Cognitive Sciences*, 14 (8): 343-344.*
- *Cowell, R.A., Bussey, T.J. & Saksida, L.M. (2010). Functional dissociations within the ventral object processing pathway: cognitive modules or a hierarchical continuum? *Journal of Cognitive Neuroscience*, 22 (11): 2460–2479.*
- *Bartko, S.J., Cowell, R.A., Winters, B.D., Saksida, L.M. and Bussey, T.J. (2010). Increased susceptibility to interference in a rat model of object amnesia: impairment in both storage and retrieval. *Neuropsychologia*, 48 (10): 2987-2997.*

- Bartko, S.J., Winters, B.D., **Cowell, R.A.**, Saksida, L.M. and Bussey, T.J. (2007a). Perceptual functions of perirhinal cortex in rats: zero-delay object recognition and simultaneous oddity discriminations. *Journal of Neuroscience*, 27 (10): 2548-2559.
- Bartko, S.J., Winters, B.D., **Cowell, R.A.**, Saksida, L.M. and Bussey, T.J. (2007b). Perirhinal cortex resolves feature ambiguity in configural object recognition and perceptual oddity tasks. *Learning & Memory*, 14: 821-832.
- Abreu, A., French, R. M., **Cowell, R. A.** & de Schonen, S. (2007). Local-Global visual deficits in Williams Syndrome: Stimulus presence contributes to diminished performance on image-reproduction. *Psychologica Belgica*, 46(4): 269-281.
- **Cowell, R.A.**, Bussey, T.J. & Saksida, L.M. (2006). Why does brain damage impair memory? A connectionist model of object recognition memory in perirhinal cortex. *Journal of Neuroscience*, 26 (47): 12186-12197.
- Winters, B.D., Forwood, S.E., **Cowell, R.A.**, Saksida, L.M. & Bussey T.J. (2004). Double dissociation between the effects of peri-postrhinal and hippocampal lesions on tests of object recognition and spatial memory: heterogeneity of function within the temporal lobe. *Journal of Neuroscience* 2004; 24: 5901-8.
- Di Ciano, P., Cardinal, R.N., **Cowell, R.A.**, Little, S.J. & Everitt, B.J. (2001). Differential involvement of NMDA, AMPA/kainate, and dopamine receptors in the nucleus accumbens core in the acquisition and performance of pavlovian approach behavior. *Journal of Neuroscience*, 21: 9471-7.

Peer-Reviewed Conference Proceedings

- Savalia, T., Lovett, A., Ceja, C., **Cowell, R.** and C. X. Bearfield (2025), Global Extrema Bias Perception and Recall of Average Data Values in Line Charts. *2025 IEEE Visualization and Visual Analytics (VIS)*, Vienna, Austria, 2025, pp. 396-400, doi: 10.1109/VIS60296.2025.00085.
- *Blauch, N.M.* and **Cowell, R.A.** (2018). Task demands and stimulus normalization in face perception: an fMRI study. *Cognitive Computational Neuroscience*, Philadelphia, PA.
- *Sadil, P.S.* and **Cowell, R.A.** (2016). A Computational Model of Perceptual Deficits in Medial Temporal Lobe Amnesia. *Proceedings of the 38th Annual Meeting of the Cognitive Science Society, 2016.*
- **Cowell, R.A.**, Huber, D.E., and Cottrell, G.W. (2009). Virtual Brain Reading: A connectionist approach to understanding fMRI. *Proceedings of the 31st Annual Meeting of the Cognitive Science Society, 2009. Winner of the Perception/Action Modeling Prize, 2009.*
- **Cowell, R.A.** and French, R.M. (2007). An unsupervised dual-network connectionist model of rule emergence in category learning. *Proceedings of the European Conference of the Cognitive Science Society, 2007.*

Book Chapters

- **Cowell, R.A.**, Bussey, T.J. and Saksida, L.M. (2016). Computational and Functional Specialization of Memory. In Murphy, R. and Honey, R. (Eds.), *The Wiley Handbook on the Cognitive Neuroscience of Learning*, Wiley-Blackwell, Hoboken, NJ.
- **Cowell, R.A.**, Bussey, T.J. and Saksida, L.M. (2011). Using Computational Modelling to Understand Cognition in the Ventral Visual-Perirhinal Pathway. In, Alonso, E. & Mondragón, E. (Eds.), *Computational Neuroscience for Advancing Artificial Intelligence: Models, Methods and Applications* (pp. 15-45). Hershey, PA: IGI Global Publishing.

INVITED TALKS

- Symposium Speaker, *Mnemonic Pattern Completion in Brain and Behavior*, Memory Disorders Research Society, University of Manchester, September 2024.
- Speaker, Reunion of the NSF Perceptual Expertise Network, Bowdoin College, Maine, July 2024.
- Colloquium of the Molecular, Cellular, and Integrative Neurosciences Interdisciplinary Program, Colorado State University, Fort Collins, April 2024.
- Institute of Cognitive Science, CU Boulder, February 2024.
- School of Psychology Colloquium, University of Bristol, UK, January 2023.
- Saksida-Bussey Group, Western University, Ontario, Canada, June 2022.
- CU Boulder, Psychology and Neuroscience Department, December 2021.

- MRC Cognition and Brain Sciences Unit, University of Cambridge, UK, May 2020 (online).
- Symposium *What can be inferred about neural population codes from psychophysical and neuroimaging data?* Vision Sciences Society Meeting, May 2019.
- Psychology Department Colloquium, Brandeis University, April 2019.
- Computational Neuroscience Initiative Seminar, University of Pennsylvania, February 2019.
- Guest Lecture, "Week of Memory and Forgetting", Neuroscience/Fine Arts Collaboration, University of Massachusetts Amherst, October 2018.
- Symposium *Motivated Memory and Event Cognition*, American Psychological Association Meeting, San Francisco, CA, August 2018.
- Massachusetts General Hospital-University of Massachusetts Amherst Neuroscience Research Meeting, MGH, Boston MA, February 2018.
- Department of Psychology, University of Toronto, November 2016.
- Neuroscience Program, University of Western Ontario, November 2016.
- Cognition and Brain Sciences Unit, Cambridge, UK. July 2015.
- Department of Psychology, University of Cambridge, UK. June 2015.
- Memory Disorders Research Society, Cermak Award Lecture, Toronto, Canada. October 2013.
- Department of Psychological and Brain Sciences, Dartmouth College, NH. April 2014.
- Department of Psychology, University of Massachusetts, Amherst. February 2013.
- Department of Psychology, University of California, Riverside. November 2012.
- Department of Cognitive Science, University of California San Diego. October 2012.
- Department of Psychology, University of Kent, UK. October 2012.
- Southern California Learning and Memory Symposium, UCSD, California. May 2012.
- Department of Psychology, University of Bristol, UK. March 2012.
- Fifth International Conference on Memory Research (ICOM5), Perception & Memory Symposium, University of York, UK. July 2011.
- Medical Research Council Cognition and Brain Sciences Unit (MRC-CBU), Cambridge, UK. July 2011.
- Cognitive Science Colloquium, University of Arizona. September 2010.
- "Looking Back at Mount Ararat" Memory Workshop, Yerevan, Armenia. April 2010.
- Department of Psychology, University of Kent, UK. June 2009.
- Department of Psychology, University of California, San Diego. April 2009.
- Department of Psychology, University of California, San Diego. November 2008.
- Birkbeck College, London, UK, February 2008.
- Centre for Cognitive Neuroscience and Cognitive Systems, University of Kent, UK, February 2008.
- Laboratory Seminar, LEAD-CNRS, Université de Bourgogne, France. November 2006.
- Behavioural Neuroscience Seminar Series, University of Cambridge. November 2005.
- Medical Research Council Cognition and Brain Unit (MRC-CBU), Cambridge, UK. July 2004.

CONFERENCE TALKS

* Talks delivered by current or former trainees.

Note: All other talks delivered by R. Cowell unless otherwise specified.

- Cowell, R.A., Gove, J. & Huber, D.E. (2026). Visual Pattern Completion of Occluded Objects Promotes Robust Visual Learning. *Vision Sciences Society*, St. Pete's Beach, FL, May 2026.
- Gove, J., Cowell, R.A., Huber, D.E. (2025). There is (or is not) a Visual Testing Effect for Novel Abstract Objects Depending on How Memory is Cued. *Annual Meeting of the Society of Experimental Psychologists (SEP)*, St. Louis, MO. (Talk delivered by David Huber).
- Cowell, R.A., Gove, J., Huber, D.E. (2025). Retrieval of visual memories via pattern completion in visual cortex. *Psychonomic Society Annual Meeting*, Denver, CO, November 2025.
- *Gove, J., Cowell, R.A., Huber, D.E. (2025). There is (or is not) a Visual Testing Effect for Novel Abstract Objects Depending on How Memory is Cued. *Psychonomic Society Annual Meeting*, Denver, CO, November 2025.
- Cowell, R.A., Gove, J., Huber, D.E. (2024). The visual testing effect requires visual pattern completion, *Annual Meeting of the Memory Disorders Research Society*, Manchester, UK, September 2024.

- Cowell, R.A., Sanders, D. M. W. (2023). The locus of recognition memory signals in human cortex depends on the complexity of the memory representations, *Annual Meeting of the Memory Disorders Research Society*, Los Angeles, CA, September 2023.
- *McCarter, A., Huber, D.E. and Cowell, R.A. (2023). No evidence for a testing effect for novel, meaningless objects. *Vision Sciences Society*, St. Pete's Beach, FL, May 2023.
- *Nikiforova, M., Cowell, R.A. and Huber, D.E. (2023). Gestalt formation promotes awareness of suppressed visual stimuli during binocular rivalry. *Vision Sciences Society*, St. Pete's Beach, FL, May 2023.
- Cowell, R.A., Gove, J., Sanders, D.M.W., Jiang, Z. and Huber, D.E. (2023) Age-related Impairments in Memory Recall Depend on What You are Remembering. *The Recollection, Familiarity, and Novelty Detection conference*, Liege, Belgium, March 2023.
- Cowell, R.A. (2022). Are humans any good at visual recall? *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2022.
- *Sanders, D. M. W., & Cowell, R. A. (2020). Manipulating representational demands of a memory discrimination task engages early brain regions. *Context and Episodic Memory Symposium*, Philadelphia, PA, August 2020 (online).
- Cowell, R.A., Sadil, P., & Huber, D.E. (2019) Bayesian modelling of fMRI data to infer modulation of neural tuning functions in visual cortex. *Vision Sciences Society*, St. Pete's Beach, FL, May 2019.
- Cowell, R.A., Barense, M.D. & Sadil, P.S. (2019) A roadmap for understanding memory: Decomposing processes into operations and representations. *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2019.
- Blumenthal, A., Martin, C., Cowell, R.A., Köhler, S. (2019). Perirhinal cortex representations that support item-based recognition decisions are shaped by temporal encoding context. *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2019.
- Cowell, R.A., Sadil, P., Serences, J.T., & Huber, D.E. (2018) A hierarchical Bayesian model for inferring neural tuning functions from voxel tuning functions. *Society for Neuroscience*, San Diego, CA, November 2018.
- Cowell, R.A., Sadil, P. S., Ross, D.A., Huber, D.E. (2018). Visual Recall: Episodic memory-like retrieval outside of hippocampus. *Society for Neuroscience*, San Diego, CA, November 2018.
- Cowell, R.A. (2018). High-level cognition in low-level brain regions. (Symposium Introduction). *Society for Neuroscience*, San Diego, CA, November 2018.
- Cowell, R.A., Sadil, P.S., Huber, D.E. (2018) Episodic-like memory mechanisms for memories that are not episodic. *Memory Disorders Research Society*, Toronto, Canada, Oct 2018.
- Blumenthal, A., Martin, C., Cowell, R.A., Köhler, S. (2018). Perirhinal cortex representations that support item-based recognition decisions are shaped by temporal encoding context. *Memory Disorders Research Society*, Toronto, Canada, Oct 2018.
- Cowell, R.A. (2018) Episodic-like memory mechanisms for memories that are not episodic. *American Psychological Association Meeting*, San Francisco, CA, August 2018.
- *Sadil, P., Huber, D.E., Serences, J.T., & Cowell, R.A. (2018) A hierarchical Bayesian model for inferring neural tuning functions from voxel tuning functions. *Vision Sciences Society*, St. Pete's Beach, FL, May 2018.
- *Sadil, P.S., Huber, D.E., Cowell, R.A. (2018) Visual recollection in the absence of identification: A perceptual filling-in process. *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2018.
- *Sadil, P.S., Huber, D.E., Cowell, R.A. (2017) A Computational Model of Perceptual Deficits in Medial Temporal Lobe Amnesia. *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2017.
- *Wilson, D.M., Potter, K. & Cowell, R.A. (2017) Recognition Memory Shielded from Semantic but not Perceptual Interference in Natural Aging. *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2017.
- Cowell, R.A., Wilson, D.M., Potter, K. (2017) Recognition Memory Shielded from Semantic but not Perceptual Interference in Natural Aging. *Memory Disorders Research Society*, Chicago, IL, Sep 2017.
- Cowell, R.A., Sadil, P.S., Potter, K., Huber, D.E. (2017) Who needs a Cartesian Theater? Visual Associative Learning without Awareness under Continuous Flash Suppression. *50th Annual Meeting of the Society for Mathematical Psychology*, Warwick, UK, July 2017.
- Cowell, R.A., Ross, D.A., Sadil, P.S., Wilson, D.M. (2016) Recall without Hippocampal Engagement. *Memory Disorders Research Society*, Princeton, NJ, September 2016.

- Cowell, R.A. and Sadil, P.S. (2016) A Computational Model of Perceptual Deficits in Amnesia, *38th Annual Meeting of the Cognitive Science Society*, Philadelphia, PA, August 2016.
- Cowell, R.A. and Sadil, P.S. (2016) A Computational Model of Perceptual Deficits in Amnesia, *Fifteenth Annual Summer Interdisciplinary Conference (ASIC)*, Val de Gardena, Italy, July 2016.
- Cowell, R.A. and Serences, J.T. (2016) Feature-Coding Transitions to Conjunction Coding with Progression through Visual Cortex. *Vision Sciences Society*, St. Pete's Beach, Florida, May 2016.
- *Ross, D.A., Sadil, P.S., Wilson, D.M. & Cowell, R.A. (2016) Hippocampus is not the unique seat of pattern completion in cued recall. *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2016.
- Cowell, R.A. (2015) Discussion: Hippocampus and the assimilation of memories into hierarchical schemas. *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2015.
- Cowell, R.A. (2014) Object Recollection and Episode Familiarity. *Memory Disorders Research Society*, Austin, TX, September 2014.
- Cowell, R.A. (2013) Do amnesics forget because old things look new or because new things look old? *Memory Disorders Research Society*, Toronto, Canada, September 2013.
- Cowell, R.A. (2013) A novel method for fMRI analysis: Inferring neural mechanisms from voxel tuning. *Vision Sciences Society*, Naples, Florida, May 2013.
- Cowell, R.A. (2012) Paradoxical False Recognition: New objects look old in a model of amnesia. *Southern California Learning and Memory Symposium*, UCSD, California, May 2012.
- Cowell, R.A. (2011). Simulating Memory: Do amnesics forget because old things look new, or because new things look old? *Fifth International Conference on Memory Research (ICOM5), Perception & Memory Symposium*, University of York, UK, July 2011.
- Cowell, R.A. (2011). What is the Blood Oxygenation Level Dependent (BOLD) signal? *Tenth Annual Summer Interdisciplinary Conference (ASIC)*, Boi Valley, Pyrenees, Spain, July 2011.
- Cowell, R.A., Bussey, T.J. & Saksida, L.M. (2011). Simulating Memory: Do amnesics forget because old things look new, or because new things look old? *Annual Interdisciplinary Conference*, Jackson, Wyoming, January 2011.
- Cowell, R.A., Huber, D.E., and Serences, J.T. (2010). Inferring neural tuning functions from the voxel tuning functions of fMRI. *Ninth Annual Summer Interdisciplinary Conference (ASIC)*, Bend, Oregon, July 2010.
- Cowell, R.A., Huber, D.E., and Cottrell, G.W. (2009). Virtual Brain Reading: A connectionist approach to understanding fMRI. *31st Annual Meeting of the Cognitive Science Society*, Amsterdam, Netherlands, July 2009.
- Cowell, R.A., Huber, D.E., and Cottrell, G.W. (2009). Virtual Brain Reading: A connectionist approach to understanding fMRI. *Eighth Annual Summer Interdisciplinary Conference (ASIC)*, Val d'Aoste, Italy, July 2009.
- Cowell, R.A., Huber, D.E. & Cottrell, G.W. (2008). Predicting fMRI data from the Fusiform Face Area with a model of visual cognition. *Meeting of the Perceptual Expertise Network*, Chicago, October 2008.
- Cowell, R.A., Bussey, T.J. & Saksida, L.M. (2008). Why does anterior temporal lobe damage make us forget objects? *Meeting of the Perceptual Expertise Network*, Banff, Alberta, May 2008.
- Cowell, R.A., Bussey, T.J. & Saksida, L.M. (2008) The Effect of Brain Lesions in the Ventral Visual Object Processing Pathway. *Seventh Annual Summer Interdisciplinary Conference (ASIC)*, Madonna di Campiglio, Italy, July 2008.
- Cowell, R.A. & French, R.M. (2007). An Unsupervised Connectionist Model of Category Learning: Using Noise to Extract Rules. *Second Meeting of the European Cognitive Science Society*, Athens, Greece, May 2007.
- Cowell, R.A. & French, R.M. (2007). From Associations to Rules in Category Learning: A Connectionist Model. *Tenth Neural Computation & Psychology Workshop*, Dijon, France.
- Cowell, R.A. & French, R.M. (2007). From Associations to Rules in Category Learning: A Connectionist Model. *Associative Learning Symposium XI*, Gregynog, Wales, April 2007.

CONFERENCE POSTER PRESENTATIONS

* Posters presented by current or former trainees. List does not include local (e.g., UMass, CU Boulder) conferences.

- Walsh, K.*, Cowell, R.A. & Huber, D.E. (2026). Location-specific learning of binocular alignment investigated with novel psychometric function approach. *Vision Sciences Society Annual Meeting*, St. Pete's Beach, FL, May 2026.
- Gove, J.*, Huber, D.E. & Cowell, R.A. (2026). Visual Pattern Completion of Occluded Objects Promotes Robust Visual Learning. *Context and Episodic Memory Symposium*, Philadelphia, PA, May 2026.
- *Pendell, C. M., Cowell, R.A. (2025). Hippocampal Dependent Cognitive Function and Concussion History. *Psychonomic Society Annual Meeting*, Denver, CO, November 2025.
- *Walsh, K., Cowell, R.A., Huber, D.E. (2025). Does good continuation extend between the eyes? A comparison of monocular and inter-ocular perceptual learning. *Psychonomic Society Annual Meeting*, Denver, CO, November 2025.
- *Walsh, K., Cowell, R.A. (2025). Object representations in early visual cortex are modulated by visual versus semantic task context. *Object Perception, Attention and Memory (OPAM) Conference*, Denver, CO, November 2025.
- *Gove, J., Huber, D.E., Cowell, R.A. (2025). A Visual Testing Effect for Novel Abstract Objects Depending on How Memory is Cued. *Object Perception, Attention and Memory (OPAM) Conference*, Denver, CO, November 2025.
- *Gove, J., Huber, D.E., Cowell, R.A. (2025). The Visual Testing Effect Requires Visual Pattern Completion. *Cognitive Neuroscience Society Annual Meeting*, Boston, MA, March 2025.
- *Nikiforova, M., Starns, J.J., Cowell, R.A., Huber, D.E. (2024). Uneasy on the Eyes: Manipulating the Appeal of Androgynous Faces Through Categorization. *Psychonomic Society Annual Meeting*, New York, NY, November 2024.
- *McCarter, A., Huber, D. E., Cowell, R. A., & Starns, J. J. (2023). No Testing Effect for Meaningless Verbal Content. *Psychonomic Society Annual Meeting*, San Francisco, California, November 2023.
- *Savalia, T., Cohen, A., Cowell, R.A. and Huber, D.E. (2023). Reward changes are more disruptive than stimulus changes to implicit sequence learning of a community structure, *Context and Episodic Memory Symposium*, Walt Disney World, Florida, May 2023.
- *Gove, J., Sanders, D.M.W., Jiang, Z. Huber, D.E. and Cowell, R.A. (2022). Age-related Impairments in Memory Recall Depend on What You are Remembering. *Psychonomic Society Annual Meeting*, Boston, MA, November 2022.
- *de la Rosa, N., Huber, D.E. and Cowell, R.A. (2022). Where do I remember this? Recognition memory for low-level visual stimuli. *Psychonomic Society Annual Meeting*, Boston, MA, November 2022.
- *Nikiforova, M., Winkielman, P., Huber, D.E., Cowell, R.A. (2022). Uneasy on the Eyes: Unfamiliar Category Boundaries Do Not Restore Beauty in Averageness. *Psychonomic Society Annual Meeting*, Boston, MA, November 2022.
- *McCarter, A., Huber, D.E. and Cowell, R.A. (2022). No Evidence for a Visual Testing Effect for Novel, Unnameable Objects. *Psychonomic Society Annual Meeting*, Boston, MA, November 2022.
- *McCarter, A., Huber, D.E. and Cowell, R.A. (2022). No evidence for a visual testing effect. *Context and Episodic Memory Symposium*, Philadelphia, PA.
- *de la Rosa, N. and Cowell, R.A. (2021). Human visual cortex supports recognition memory for simple visual stimuli. *Annual Meeting of the Society for Neuroscience*, Virtual Conference.
- *de la Rosa, N. and Cowell, R.A. (2021). Mid-early visual cortex holds functional representations of memory information for simple visual associations. *62nd Annual meeting of the Psychonomic Society*, Virtual Conference.
- *Nikiforova, M., Cowell, R.A. and Huber, D.E. (2021) Becoming aware of something that is not there: Illusory contours facilitate breakthrough from continuous flash suppression. *62nd Annual meeting of the Psychonomic Society*, Virtual Conference.
- Savalia, T., Cowell, R.A. and Huber, D.E. (2021). Implicit learning in the absence of explicit learning in a visuomotor adaptation task. *62nd Annual meeting of the Psychonomic Society*, Virtual Conference.
- *Sadil, P. S., Cowell, R. A., & Huber, D. E. (2020). The serial dependence effect is both attraction to the previous response and repulsion from the previous stimulus. *61st Annual meeting of the Psychonomic Society*, Virtual Conference.
- *Savalia, T., & Cowell, R. A. & Huber, D. E. (2020). "Learning to Learn: Modeling the time-course of visuomotor adaptation". Poster, *53rd Annual (Virtual) Meeting of the Mathematical Psychology Society*, July 2020.
- *Sanders, D. M. W., & Cowell, R. A. (2020, May). Shared neural substrates of perception and

memory: Testing the assumptions and predictions of the representational-hierarchical account.

Poster session at the *Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.

- *Jiang, A., Sanders, D. M. W., & Cowell, R. A. (2020, May), *Visual and semantic similarity norms for a new object and scene photographic image set*. Poster session at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL.
- *de la Rosa-Rivera, N., Leger, K., Blauch, N.M. & Cowell, R.A. (2019). Neural Correlates of Recognition Memory in the Human Ventral Visual Stream. Poster, *Society for Neuroscience Annual Meeting*, November 2019.
- *Sadil, P. S., Cowell, R. A., & Huber, D. E. (2019). A hierarchical Bayesian state trace analysis for assessing monotonicity while factoring out subject, item, and trial level dependencies. *60th Annual Meeting of the Society for Mathematical Psychology*, Montreal, Canada.
- *Nikiforova, M., Cowell, R. A., & Huber, D. E. (2019). Is awareness necessary to process visual configurations? A continuous flash suppression study of Kanizsa squares. *60th Annual meeting of the Psychonomic Society*, Montreal, Canada.
- *Savalia, T., Huber, D. E., & Cowell, R. A. (2019). Learning a Novel Perception-Action Mapping: Error Magnitude, Speed/Accuracy Emphasis, and Reinforcement Learning. *60th Annual meeting of the Psychonomic Society*, Montreal, Canada.
- Cowell, R.A., Sadil, P.S., Huber, D.E. (2019) Using population receptive field mapping to address the “vignetting” problem with voxel tuning methodology. *Brain Initiative Investigators Meeting*, Washington DC.
- *Blauch, N.M. & Cowell, R.A. (2018) Task Demands and Stimulus Normalization in Face Perception: an fMRI Study. *Cognitive Computational Neuroscience Conference*, Philadelphia, PA.
- Cowell, R.A., Sadil, P.S., Potter, K., Huber, D.E. (2018). Visual Recollection: Connecting the dots without top-down knowledge. *Vision Sciences Society Conference*, St. Pete’s Beach, FL.
- *Wilson, D.M., Starns, J.J., & Cowell, R.A. (2018), Item strength affects source memory zROC slopes when source interference is unimproved. *Context and Episodic Memory Symposium*, Philadelphia, PA.
- Huber, D.E., Sadil, P.S., Cowell, R.A. (2018) A hierarchical Bayesian model for inferring neural subpopulation tuning functions from fMRI data. *Brain Initiative Investigators Meeting*, Washington DC.
- *Wilson, D. M., Potter, K. & Cowell, R. A. (2017). Recognition memory shielded from semantic but not perceptual interference in normal aging. *Society for Neuroscience Annual Meeting*, Washington D.C.
- *Wilson, D.M., Potter, K., & Cowell, R. A. (2016). A representational hierarchical account: A new theory of false memories. *Psychonomic Society 57th Annual Meeting*, Boston, MA.
- *Ross, D.A., Wilson, D.M., Sadil, P.S. & Cowell, R.A. (2016). Hippocampus is not the unique seat of pattern completion in cued recall. *Psychonomic Society 57th Annual Meeting*, Boston, MA.
- *Sadil, P.S., Potter, K., Huber, D.E., Cowell, R.A. (2016) A Continuous Flash Suppression Study of Implicit Visual Recollection. *Psychonomic Society 57th Annual Meeting*, Boston MA.
- *Wilson, D. M., Ross, D. A., Yeung, L. K., Barense, M. D. & Cowell, R. A. (2016). Perceptual experience and the perirhinal cortex. *Vision Sciences Society Annual Meeting*, St. Pete Beach, FL.
- *Sadil, P.S., & Cowell, R.A. (2016). A Computational Model of Perceptual Deficits in Medial Temporal Lobe Amnesia. *Context and Episodic Memory Symposium*, Philadelphia, PA.
- Cowell, R.A. & Serences, J.T. (2016). Feature-Coding Transitions to Conjunction Coding with Progression through Visual Cortex. *CoSyNe Conference*, Salt Lake City, UT.
- *Wilson, D. M., Ross, D. A., Yeung, L. K., Barense, M. D. & Cowell, R. A. (2015). Perceptual experience and the perirhinal cortex: The “Other Handbag” effect. *Psychonomic Society Annual Meeting*, Chicago, IL.
- *Sadil, P.S., Potter, K., Huber, D.E., Cowell, R.A. (2015). A Continuous Flash Suppression Study of Implicit Visual Recollection, *Context and Episodic Memory Symposium*, Philadelphia, PA.
- Cowell, R.A. & Serences, J.T. (2014). Mapping the emergence of conjunctive representations in visual cortex with fMRI. *Cognitive Neuroscience Society Meeting*, Boston, MA.
- Newsome, R.N., Trelle, A.N., Rowe, G., Cowell, R.A., Barense, M.D. (2013) Minimizing visual interference improves recognition memory performance in amnesia: Implications for the Representational-Hierarchical Model. *Cognitive Neuroscience Society Meeting*, Boston, MA.
- Cowell, R.A., Huber, D. E., & Serences, J. T. (2013). A novel method for fMRI analysis: Inferring neural mechanisms from voxel tuning. *Computational and Systems Neuroscience (COSYNE)*, Salt Lake City, UT.

- Cowell, R.A., Huber, D.E., Cottrell, G.W. & Serences, J.T. (2010). Virtual Multi-Unit Electrophysiology: Inferring neural response profiles from fMRI data. *Vision Sciences Society Conference*, Naples, FL.
- Cowell, R.A., Huber, D.E., & Cottrell, G.W. (2009). Virtual Brain Reading: A connectionist approach to understanding fMRI data. *Vision Sciences Society Conference*, Naples, FL.
- Cowell, R.A., Huber, D.E., and Cottrell, G.W. (2009). Virtual Brain Reading: A connectionist approach to understanding fMRI data. *Computational Systems Neuroscience (COSYNE)*, Salt Lake City, UT.
- McTighe, S.M., Cowell, R.A., Winters, B.D., Bussey, T.J. & Saksida, L.M. (2008) Novel objects appear familiar following perirhinal cortical damage. *Society for Neuroscience*, Washington DC.
- Cowell, R.A. & French, R.M. (2008). The Emergence of Rules in Category Learning. *30th Annual Conference of the Cognitive Science Society*, Washington DC.
- Cowell, R.A. & French, R.M. (2007). A Semi-supervised Connectionist Model of Category Learning: Using Noise to Extract Rules. *Computational Cognitive Neuroscience Conference*, San Diego, CA.
- Cowell, R.A., Bussey, T.J. and Saksida, L.M. (2006). How does brain damage impair memory? A connectionist model of object recognition memory in perirhinal cortex. *Computational Cognitive Neuroscience Conference*, Houston, TX.
- Cowell, R.A., Bartko, S.J., Bussey, T.J. & Saksida, L.M. (2005). A computational model of recognition memory in perirhinal cortex: a critical role for complex conjunctive representations. *European Brain and Behaviour Society Conference*, Dublin.
- Cowell, R.A., Bussey, T.J. & Saksida, L.M. (2004) Are there perceptual and mnemonic modules in the brain? A connectionist model of the effects of lesions in the ventral visual stream. *Federation of European Neurosciences Conference*, Lisbon.
- Cowell, R.A., Bussey, T.J. & Saksida, L.M. (2004) Are there perceptual and mnemonic modules in the brain? A connectionist model of the effects of lesions in the ventral visual stream. *Autumn School in Cognitive Neuroscience*, University of Oxford.

TEACHING

- **PSYC 6200/CSCI 6402 Issues and Methods in Cognitive Science.** Graduate seminar, ~30 students.
- **PSYC 3005/CSCI 3702 Introduction to Cognitive Science.** Undergraduate lecture, ~60 students.
- **PSYC 5695: Memory Proseminar.** Graduate Seminar, CU Boulder.
- **PSYC 5541: Cognitive Neuroscience of Memory and Vision.** Graduate Seminar, CU Boulder.
- **PSYC 4155: Cognitive Neuroscience/Neuropsychology.** Senior undergraduate lab and lecture, CU Boulder, ~42 students.
- **PSYCH/NSB 618: Cognitive and Behavioral Neuroscience.** Graduate Core Course, UMass.
- **PSYCH 891: Cognitive Neuroscience of High-Level Vision and Memory.** Graduate seminar, UMass.
- **PSYCH 315: Cognitive Psychology.** Introductory course, ~250 undergraduates, UMass.
- **PSYCH 391: Cognitive Neuroscience of High-Level Vision and Memory.** Seminar, senior undergraduates, UMass, ~25 students.
- **PSYCH 304: Mind, Brain and Behavior.** Introduction to Cognitive Neuroscience for undergraduates, UMass, ~25 students.

ADVISING AND MENTORING

Post-doctoral trainees

- David Ross, Post-doctoral Research Associate, UMass Amherst, Nov 2014 – Oct 2017
- Patrick Sadil, August 2020 – June 2021
- Merika Sanders (nee Wilson), August 2020 – June 2021
- Kassandra Lee Corsini, July 2024 – present

Post-baccalaureate trainees

- Nick Blauch, Pre-doctoral Research Associate, UMass Amherst, 2017 – 2018
- Mar Nikiforova, Pre-doctoral Research Associate, UMass Amherst, 2018 – 2020

Graduate Students

- Merika Wilson, PBS Cognitive Program, University of Massachusetts Amherst, Fall 2014 – Aug 2020
 - Now a postdoctoral fellow at Harvard University
- Patrick Sadil, PBS Cognitive Program, University of Massachusetts Amherst, Fall 2015 – Aug 2020

- Now a postdoctoral fellow at Johns Hopkins University
- Tejas Savalia, PBS Cognitive Program, University of Massachusetts Amherst, Fall 2018 – Dec 2022
 - Now a postdoctoral fellow at Emory University
- Natasha de la Rosa Rivera, Neuroscience and Behavior Program, University of Massachusetts Amherst, Fall 2018 – Dec 2022
- Johanny Castillo, PBS Cognitive Program, University of Massachusetts Amherst, Fall 2020 – June 2022
- Anna McCarter, PBS Cognitive Program, University of Massachusetts Amherst, Fall 2021 – Dec 2022
 - Now a postdoctoral fellow at Harvard University
- Jenn Gove, Cognitive Program, Psychology & Neuroscience, CU Boulder, Fall 2023 – present.
- Kate Walsh, Cognitive Program, Psychology & Neuroscience, CU Boulder, Fall 2023 – present.
- Carlin Pendell, Cognitive Program, Psychology & Neuroscience, CU Boulder, Fall 2024 – present

Undergraduate Research Assistants

CU Boulder

- Joshua Gortva, 2026 – present
- Nate Harris, 2026 – present
- Hutton Smith, 2026 – present
- Aaron Levy, 2026 – present
- Annika Beighey, 2026 – present
- Stella Grabham, 2025 – present
- Quan Nguyen, 2025 – present
- Lila Gelwick, 2025 – present
- Eliana Poger, 2025 – present
- Azucena Flores Young, 2025 – present
- Rose Atwood, 2025 – present
- Charlie Lommen 2025 – present
- Isabella Theurer, 2025 – present
- Elysha Smith, 2025
- Carly Price, 2025
- Gabrielle Puskas, 2023 – 2025
- Isaiah Garcia, 2023 – 2025
- Tiana Emmert, 2023 – 2024

UMass Amherst

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|---|---|
| <ul style="list-style-type: none"> • Mariah Katz, 2014 • Emily Gabriels, 2014-15 • David Cohen, 2014-15 • Simon Rackenberg-Loisel, 2014-15 • Martha Doxsey, 2015-16 • Hannah Brinkman, 2015-16 • Jay Ellison, 2016 • Kieran Talkiewicz, 2015-16 • Stephanie Choi, 2015-16 • Brianna Passi, 2016-17 • Krystal Leger, 2016-18 • Andrea Mayoral de la Pascua, 2017-18 • Nadine Juweid, 2017-18 • Reagan Katulege, 2017-18 • Aman Jha, 2018 • Ethan Harris, 2017-18 | <ul style="list-style-type: none"> • Sandrine Jabbour 2017-2019 • Effy Yao, Fall 2018 • Camrin Clayton, Spring 2019 • Gabriel Zangirolani, 2019 • Kimberly Beliard, 2018-19 • Audrey Jiang, 2019-2020 • Kayla Riera, 2020-2021 • John Larios, 2019-2020 • Cecilia Yu, 2019-2020 • Jenn Gove, 2020-22 • Ashish Patel, 2021-22 • Maximilian Kozlowski, 2021-22 • Aisling Finnegan, 2021-22 • Colleen Dunn, 2022 • Hannah Laird (volunteer) 2021-22 |
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Undergraduate Independent Study Projects

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| <ul style="list-style-type: none"> • David Cohen, 2015 • Kieran Talkiewicz, 2016 • Stephanie Choi, 2017 | <ul style="list-style-type: none"> • Krystal Leger, 2017 • Idil Ozdemir, 2017 • Tingshan Liu, 2017 |
|--|---|

- Kim Beliard, 2018
- Audrey Jiang, 2019
- Cecilia Yu, 2019
- Audrey Jiang, 2020
- Jenn Gove, 2021
- Rose Atwood, 2025
- Stella Grabham, 2025

Undergraduate Honors Thesis Students

- Charlie Lommen, 2025-26 – Advisor and Committee Chair
- Jenn Gove, 2022 – Advisor and Committee Chair (winner of PBS Outstanding Thesis Award)
- Nicholas Blauch, 2017 – Committee Member, Co-Advisor
- Krystal Leger, 2018 – Advisor and Committee Chair (winner of PBS Outstanding Thesis Award)

Undergraduate Mentoring, Other

- Faculty Sponsor for Bachelor's Degree in Individual Concentration (BDIC), Nicholas Blauch, 2017.

Undergraduate STEM Ambassador Students

The UMass STEM Ambassadors Program aimed to increase student engagement in STEM subjects. Students are primarily low-income, first generation college students, or underrepresented minorities in STEM fields.

- Zachary Sun, 2016-17
- Liz-Marie Galloway, 2016-17
- Sandrine Jabbour, 2016-17
- Kimberly Beliard, 2017-18
- Camrin Clayton, 2018-19
- Gabriel Zangirolani, 2018-19
- Madison Valois, 2018-19

PUBLIC OUTREACH / COMMUNITY ENGAGEMENT / PRO BONO

UMass Amherst Prison Education Initiative, Founding member, UMass Amherst
Eureka! Program (for high school girls from local under-served communities), UMass Amherst
Five Colleges Learning in Retirement Society, Lathrop, Northampton, MA
UMass Amherst Fine Arts Center, Amherst, MA
Café Scientifique, University of Kent, UK
L'Experimenterium, University of Burgundy, France
Science Week, University of Cambridge, UK

PEER REVIEW

Grant Reviewing Activity

- Panelist, NIH, Human Complex Mental Function, 2026.
- Panelist, NSF Graduate Research Fellowship Program, 2023.
- Panelist, NSF, Division of Behavioral and Cognitive Sciences (BCS), 2021, 2018, 2017, 2016
- Panelist, Brain Canada, 2022.
- Ad hoc grant reviewer: NSF; Royal Society, UK; CU Boulder AB Nexus; CU Boulder Institute of Cognitive Science

Publication Reviewing Activity

- Consulting Editor for *Psychonomic Bulletin and Review*, Jan 2020 – present.
- Conference reviewer: Cognitive Science Society Meeting; Cognitive Computational Neuroscience Conference

- Ad hoc reviewer for journals:

Behavioral Neuroscience

Brain Research

Brain Research Bulletin

Cerebral Cortex

Cognition

Cognitive Science Society Meeting

Cognitive Computational Neuroscience Meeting

Cognitive Neuroscience

Connection Science

Cortex

Current Aging Science

Current Biology

eLife
Frontiers in Cognitive Science
Frontiers in Perception Science
Frontiers in Psychology
Frontiers in Systems Neuroscience
Hippocampus
IEEE Trans. Auton. Mental Dev.
Imaging Neuroscience
Journal of Cognitive Neuroscience
JEP: General
Journal of Neuroscience
Learning and Memory
Memory and Cognition
Memory
Nature Human Behaviour
Nature Communications
Neurobiology of Aging
NeuroImage
Neuron
Neuropsychologia
PLoS One
*Proceedings of the National Academy of
Sciences (PNAS)*
Psychology & Neuroscience
Psychological Reports
Psychonomic Bulletin & Review
Quarterly Journal Exp. Psychology
Visual Cognition