

## Christopher Baldassano

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### CONTACT INFORMATION

Columbia University  
1190 Amsterdam Ave  
370 Schermerhorn Hall  
New York, NY 10027

c.baldassano@columbia.edu  
<http://www.chrisbaldassano.com/>

### EMPLOYMENT

#### **Columbia University**

Associate Professor (non-tenured), Department of Psychology (2024-)  
Assistant Professor, Department of Psychology (2018-2024)  
Affiliate Member, Mortimer B. Zuckerman Mind Brain Behavior Institute (2021-)

#### **Princeton University**

Postdoctoral Research Associate,  
Princeton Neuroscience Institute (2015-2018)  
PIs: Professors Uri Hasson and Ken Norman

### EDUCATION

#### **Stanford University**, Ph.D., Computer Science, April 2015

Advisor: Professor Fei-Fei Li

Co-Advisor: Diane M. Beck, University of Illinois at Urbana-Champaign

#### **Princeton University** B.S.E., Electrical Engineering, June 2009

*Summa cum Laude* (GPA 3.97)

Certificate in Robotics and Intelligent Systems

Certificate in Engineering Physics

### REFEREED PUBLICATIONS

H. Tarder-Stoll, **C. Baldassano\***, M. Aly\*. “The brain hierarchically represents the past and future during multistep anticipation.” *Nature Communications*, 2024. In press.

A. De Soares, T. Kim, F. Mugisho, E. Zhu, A. Lin, C. Zheng, **C. Baldassano**. “Top-down attention shifts behavioral and neural event boundaries in narratives with overlapping event scripts.” *Current Biology*, 2024. In press.

H. Tarder-Stoll, **C. Baldassano\***, M. Aly\*. “Consolidation enhances multistep anticipatory judgements but diminishes access to perceptual features.” *Psychological Science*, 2024. 10.1177/09567976241256617

C. Lee, J. Han, M. Feilong, G. Jiahui, J. Haxby, **C. Baldassano**. “Hyper-HMM: aligning human brains and semantic features in a common latent event space.” *Thirty-seventh Conference on Neural Information Processing Systems*, 2023.

M. Bennett, **C. Baldassano**. “img2fmri: a python package for predicting group-level fMRI responses to visual stimuli using deep neural networks.” *Aperture Neuro*, 2023. 10.52294/001c.87545

**C. Baldassano**. “Studying waves of prediction in the brain using narratives.” *Viewpoint in Neuropsychologia*, 2023. 10.1016/j.neuropsychologia.2023.108664

T. Golan\*, M. Siegelman\*, N. Kriegeskorte, **C. Baldassano**. “Testing the limits of natural language models for predicting human language judgments.” *Nature Machine Intelligence*, 2023. 10.1038/s42256-023-00718-1

J. Huang, I. Velarde, W.J. Ma, **C. Baldassano**. “Schema-based predictive eye movements support sequential memory encoding.” *eLife*, 2023. 10.7554/eLife.82599

- T.S. Yates, L.J. Skalaban, C.T. Ellis, A.J. Bracher, **C. Baldassano**, N.B. Turk-Browne. “Neural event segmentation of continuous experience in human infants.” *PNAS*, 2022. 10.1073/pnas.2200257119
- S. Cohen, N. Tottenham, **C. Baldassano**. “Developmental changes in story-evoked responses in the neocortex and hippocampus.” *eLife*, 2022. 10.7554/eLife.69430
- R. Masís-Obando, K.A. Norman, **C. Baldassano**. “Schema representations in distinct brain networks support narrative memory during encoding and retrieval.” *eLife*, 2022. 10.7554/eLife.70445
- J.A. Williams, E.H. Margulis, S.A. Nastase, J. Chen, U. Hasson, K.A. Norman, **C. Baldassano**. “High-order areas and auditory cortex both represent the high-level event structure of music.” *Journal of Cognitive Neuroscience*, 2022. 10.1162/jocn.a.01815
- M. Kumar, M. Anderson, J. Antony, **C. Baldassano**, P. Brooks, M. Cai, P.-H. Chen, C. Ellis, G. Henselman-Petrusek, D. Huberdeau, J.B. Hutchinson, Y.P. Li, Q. Lu, J. Manning, A.C. Mennen, S. Nastase, H. Richard, A.C. Schapiro, N. Schuck, M. Shvartsman, N. Sundaram, D. Suo, J.S. Turek, V. Vo, G. Wallace, Y. Wang, H. Zhang, X. Zhu, M. Capota, J. Cohen, U. Hasson, K. Li, P.J. Ramadge, N. Turk-Browne, T. Willke, K.A. Norman. “BrainIAK: The Brain Imaging Analysis Kit.” *Aperture Neuro*, 2022. 10.52294/31bb5b68-2184-411b-8c00-a1dacb61e1da
- A. Wu, S.A. Nastase, **C. Baldassano**, N.B. Turk-Browne, K.A. Norman, B.E. Engelhardt, J.W. Pillow. “Brain kernel: a new spatial covariance function for fMRI data.” *NeuroImage*, 2021. 10.1016/j.neuroimage.2021.118580
- S.A. Nastase, Y.-F. Liu, H. Hillman, A. Zadbood, L. Hasenfratz, N. Keshavarzian, J. Chen, C.J. Honey, Y. Yeshurun, M. Regev, M. Nguyen, C.H.C. Chang, **C. Baldassano**, O. Lositsky, E. Simony, M.A. Chow, Y.C. Leong, P.P. Brooks, E. Micciche, G. Choe, A. Goldstein, T. Vanderwal, Y.O. Halchenko, K.A. Norman, U. Hasson. “Narratives: fMRI data for evaluating models of naturalistic language comprehension.” *Scientific Data*, 2021. 10.1038/s41597-021-01033-3
- C.S. Lee, M. Aly, **C. Baldassano**. “Anticipation of temporally structured events in the brain.” *eLife*, 2021. 10.7554/eLife.64972
- C. Chen, Q. Lu, Andre Beukers, **C. Baldassano**, K. Norman. “Learning to perform role-filler binding with schematic knowledge.” *PeerJ*, 2021. 10.7717/peerj.11046
- C. Ellis, **C. Baldassano**, A.C. Schapiro, M.B. Cai, J.D. Cohen. “Facilitating open-science with realistic fMRI simulation: validation and application.” *PeerJ*, 2020. 10.7717/peerj.8564
- M. Siegelman and **C. Baldassano**. “Remembering together.” *News & Views, Nature Human Behaviour*, 2019. 10.1038/s41562-019-0789-x
- M. Silva, **C. Baldassano**, L. Fuentemilla. “Rapid memory reactivation at movie event boundaries promotes episodic encoding.” *Journal of Neuroscience*, 2019. 10.1523/JNEUROSCI.0360-19.2019
- C. Baldassano**, U. Hasson, K.A. Norman. “Representation of real-world event schemas during narrative perception.” *Journal of Neuroscience*, 2018. 10.1523/JNEUROSCI.0251-18.2018
- I.I.A. Groen, M.R. Greene, **C. Baldassano**, L. Fei-Fei, L., D.M. Beck, C.I. Baker. “Distinct contributions of functional and deep neural network features to representational similarity of scenes in human brain and behavior.” *eLife*, 2018. 10.7554/eLife.32962

- C. Baldassano**, J. Chen, A. Zadbood, J.W. Pillow, U. Hasson, K.A. Norman. “Discovering event structure in continuous narrative perception and memory.” *Neuron*, 2017. 10.1016/j.neuron.2017.06.041
- K. Vodrahalli, P.H. Chen, Y. Liang, **C. Baldassano**, J. Chen, E. Yong, C. Honey, U. Hasson, P. Ramadge, K. Norman, S. Arora. “Mapping Between fMRI Responses to Movies and their Natural Language Annotations.” *NeuroImage*, 2017. 10.1016/j.neuroimage.2017.06.042
- C. Baldassano**, A. Esteva, L. Fei-Fei, D.M. Beck. “Two distinct scene processing networks connecting vision and memory.” *eNeuro*, 2016. 10.1523/ENEURO.0178-16.2016
- C. Baldassano**, L. Fei-Fei, D.M. Beck. “Pinpointing the peripheral bias in neural scene processing networks during natural viewing.” *Journal of Vision*, 2016. 10.1167/16.2.9
- C. Baldassano**, D.M. Beck, L. Fei-Fei. “Human-Object Interactions Are More than the Sum of Their Parts.” *Cerebral Cortex*, 2016. 10.1093/cercor/bhw077
- M.R. Greene, **C. Baldassano**, A. Esteva, D.M. Beck, L. Fei-Fei. “Visual Scenes are Categorized by Function.” *Journal of Experimental Psychology: General*, 2016. 10.1037/xge0000129
- C. Baldassano**, D.M. Beck, L. Fei-Fei, “Parcellating connectivity in spatial maps.” *PeerJ*, 2015. 10.7717/peerj.784
- C. Baldassano**, D.M. Beck, L. Fei-Fei. “Differential Connectivity Within the Parahippocampal Place Area.” *NeuroImage*, 2013. 10.1016/j.neuroimage.2013.02.073
- C. Baldassano**, M.C. Iordan, D.M. Beck, L. Fei-Fei. “Discovering Voxel-Level Functional Connectivity Between Cortical Regions.” *Machine Learning and Interpretation in Neuroimaging Workshop, Neural Information Processing Systems (NIPS)* 2012.
- C. Baldassano**, M.C. Iordan, D.M. Beck, L. Fei-Fei. “Voxel-level functional connectivity using spatial regularization,” *NeuroImage*, 2012. 10.1016/j.neuroimage.2012.07.046

#### PUBLIC PREPRINTS

- S. Shim, F.B. Mugisho, L. Davachi, **C. Baldassano**. “Generating event boundaries in memory without prediction error.” *PsyArXiv*, 2024. 10.31234/osf.io/4bdp6
- J. Huang, E. Furness, Y. Liu, M.-J. Kenmoe, R. Elias, H.T. Zeng, **C. Baldassano**. “Accurate predictions facilitate robust memory encoding independently from stimulus probability.” *PsyArXiv*, 2023. 10.31234/osf.io/dhzvc
- M. Silva, X. Wu, M. Sabio, E. Conde-Blanco, P. Roldan, A. Donaire, M. Carreno, N. Axmacher, **C. Baldassano**, L. Fuentemilla. “Neocortico-hippocampal ripple-based coordination during naturalistic encoding.” *bioRxiv*, 2023. 10.1101/2023.09.27.559739
- M.E. Sachs, M.S. Kozak, K.N. Ochsner, **C. Baldassano**. “Brain state dynamics reflect emotion transitions induced by music.” *bioRxiv*, 2023. 10.1101/2023.03.01.530528

#### AWARDS

- Division of Natural Sciences Award for Commitment to Service (2024)
- PNAS Cozzarelli Prize Finalist, for “Neural event segmentation of continuous experience in human infants” (2022)
- Elected to Memory Disorders Research Society (2020)
- Lenfest Junior Faculty Development Award (2018, 2023)

*ScienceSeeker* Editor's Selection for article "How deep is the brain?" (2016)

Best Presenter Award, Science Teaching Through Art (STAr) (2014)

NSF Graduate Research Fellowship (2010-2012, 2013-2014)

FUNDING SUPPORT *The neural basis of naturalistic memory*

Columbia University, SEAS Interdisciplinary Research Seed Funding

Role: PI (multi-PI grant with Dr. Joshua Jacobs)

07/01/2023 - 07/01/2025 (renewed 07/01/2024)

\$170,000

*Hierarchies of spatiotemporal anticipation in the human brain*

National Institutes of Health R01, #R01EY034436

Role: PI (multi-PI grant with Dr. Mariam Aly)

03/01/2023 - 02/29/2028

\$2,034,841

*Lenfest Junior Faculty Development Award: Investigations of Naturalistic Contexts on Neural Representations*

Columbia University

Role: PI

01/26/2023 - 01/26/2024

\$14,400

*How cognitive maps potentiate new learning: constraining a computational model by decoding the thoughts of superior memorists*

National Science Foundation, #2024622

Role: PI

09/01/2020 - 08/31/2024

\$516,701 Columbia total costs (\$990,000 across all linked sites)

*Collaboratory Fellows Fund*

Columbia University

Role: Course Instructor

07/01/2019 - 01/01/2020

\$14,963 for my course (\$149,859 for full project)

*Lenfest Junior Faculty Development Award: Manipulating temporal event structure via top-down script activation*

Columbia University

Role: PI

01/01/2019 - 01/01/2020

\$15,000

INVITED TALKS  
AND WORKSHOPS

Cognitive Brown Bag Series, Dartmouth College (2025)

MindCORE Seminar Series, University of Pennsylvania (2025)

Wu Tsai Neurosciences Institute Seminar Series, Stanford University (2024)

Lectures on Tap, Brooklyn, NY (2024)

Stavros Niarchos Foundation Brain Insight Lecture, Columbia University (2024)

Collaborative Research Center, German Research Foundation (2024)

Brain and Cognitive Sciences Seminar, Rochester University (2024)

2023 Millward Colloquium, Brown University (2023)

Academic Job Market Workshop, Princeton University (2023)  
 Abstractions Workshop, Cognitive Science Society (2023)  
 Center for Computational Psychiatry, Mount Sinai (2023)  
 Strategic Storytelling seminar (2022, 2023)  
 Carnegie Mellon University brAIn Seminar (2022)  
 Ohio State University Colloquium Series (2022)  
 Rotman Research Institute Academic Rounds (2022)  
 USA Memory Championship (2021)  
 Spinoza Centre for Neuroimaging (2021)  
 NIMH Workshop on Naturalistic Stimuli and Individual Differences (2021)  
 NIMH Dynamic and Interactive Data Visualization Workshop (2021)  
 Virtual Feindel Brain and Mind Lecture Series, Montreal Neurological Institute (2021)  
 C3N Seminar, New York State Psychiatric Institute (2020)  
 University of Arizona Cognitive Science Virtual Colloquium Series (2020)  
 Oxford Wellcome Centre for Integrative Neuroimaging (2020)  
 Yale Current Works in Neuroscience (2019)  
 Flux Developmental Cognitive Neuroscience Congress (2019)  
 CUNY Graduate Center Neuroscience Seminar Series (2019)  
 Columbia University Department of Human Development Colloquium (2019)  
 Princeton BrainIAK Workshop (2019)  
 Columbia University Psychology Colloquium (2018)  
 USA Memory Championship (2018)  
 TEDxCarnegieLake (2017)

UNDERGRADUATE  
AND GRADUATE  
TEACHING

COGS UN1001: Introduction to Cognitive Science  
 Fall 2021, Fall 2022, Fall 2023, Fall 2024  
 PSYC GU4239: Cognitive Neuroscience in Narrative Film  
 Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023  
 PSYC UN1610: Introductory Statistics for Behavioral Scientists  
 Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2024  
 PSYC GR6130: Tools for Reproducible & Collaborative Science  
 Fall 2019  
 Princeton Neuroscience Junior Seminar  
 Fall 2015, Fall 2016, Fall 2017

MENTORSHIP

*Postdoctoral fellows*  
 Samantha Cohen  
 Halle Dimsdale-Zucker  
 Matthew Sachs  
 Marta Silva

*Graduate students (Primary or co-primary advisor)*  
 Taylor Chamberlain  
 Zall Hirschstein  
 Jiawen Huang  
 Caroline Lee  
 Matthew Siegelman  
 Hannah Tarder-Stoll

*Graduate students (Secondary advisor)*  
 Yaniv Abir  
 Eivinas Butkus  
 John Andrew Chwe

Celia Durkin  
Camille Gasser  
Iddo Gefen  
Wenxuan Guo  
Arlene Lormestoire  
Rolando Masis-Obando  
Craig Poskanzer  
Marta Silva  
Benjamin Silver  
Jamal Williams

*Graduate students (Thesis committee)*

Natalie Biderman  
Veronica Bossio Botero  
Michael Cohanpour  
Serra Favila  
Manasi Jayakumar  
Alberto Mariola  
Jonathan Nicholas  
Petar Raykov

*Undergraduate thesis students*

Gloria Charite  
Karina Feng  
Samuel Hutchinson  
Mareike Keller  
Yifang Liu  
Katie Mae Peters  
Sunjae Shim  
Hannah Zeng

- MEDIA COVERAGE “Verbal Nonsense Reveals Limitations of AI Chatbots.” *Zuckerman Institute News*, September 14, 2023.
- “New Map of Meaning in the Brain Changes Ideas About Memory.” *Quanta Science Podcast*, May 11, 2022.
- “New Map of Meaning in the Brain Changes Ideas About Memory.” *Quanta Magazine*, February 8, 2022.
- “The Science of Mind Reading.” *The New Yorker*, December 6, 2021.
- “Several brain regions help us anticipate what’s going to happen next.” *PNAS Journal Club*, April 30, 2021.
- “Researchers identify a neural mechanism involved in the creation and consolidation of memories.” *University of Barcelona News*, October 22, 2019.
- “A toolkit for data transparency takes shape.” *Nature*, August 20, 2018.
- “‘Sherlock’ in the depths of the brain.” *Austrian Broadcasting Corporation*, August 4, 2017.
- “Scientists Legit Studied The Brains Of People Watching ‘Sherlock’ And Discovered Something Super Cool.” *Gizmodo Australia*, August 4, 2017.
- “‘Sherlock’ and the case of narrative perception.” *Science Daily*, August 2, 2017.

## SERVICE

### *Departmental Service*

Director of Undergraduate Studies for Psychology (2019-)  
Faculty Search Committee (2018-2019, 2019-2020)  
COVID-19 Research Ramp-Up Committee (2020)  
Graduate Admissions Committee (2023-2024)

### *University Service*

Elected to Junior Faculty Advisory Board (2020-2022)  
Co-chair of the University Seminar on Cognitive and Behavioral Neuroscience (2022-)

### *Professional Service*

Society for Mathematical Psychology satellite meeting co-organizer (2024)  
Associate Editor, Journal of Neuroscience (2024-)  
NSF Cognitive Neuroscience Panel (2021, 2022)  
Ad Hoc reviewer for NSF Small Business Innovation Research program (2022)  
Mentor for Científico Latino Graduate Student Mentorship Initiative (2022)

### *Volunteer reviewer*

Attention, Perception, & Psychophysics  
Behavioural Brain Research  
Cerebral Cortex  
Cognition  
Cognitive Research: Principles and Implications  
Communications Biology  
Current Biology  
Current Opinion in Neurobiology  
Developmental Science  
eLife  
eNeuro  
European Conference on Computer Vision (ECCV)  
Frontiers in Human Neuroscience  
IEEE Conference on Computer Vision and Pattern Recognition (CVPR)  
IEEE Journal of Selected Topics in Signal Processing  
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)  
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)  
Imaging Neuroscience  
International Conference on Computer Vision (ICCV)  
International Workshop on Pattern Recognition in Neuroimaging  
iScience  
Journal of Cognitive Neuroscience  
Journal of Neuroscience  
Journal of Neuroscience Methods  
Journal of Vision  
Nature Communications  
Nature Human Behavior  
Nature Neuroscience  
Nature Reviews Neuroscience  
Neural Information Processing Systems (NIPS)  
NeuroImage  
Neuron  
Neuropsychologia  
PLOS One  
Proceedings of the National Academy of Sciences (PNAS)  
Psychology and Aging

- CONFERENCE AND WORKSHOP PRESENTATIONS
- A. Vannucci, T.S. Yates, C. Vicioso, A. Fields, E. Niemiec, D.G. Juarez, E. Joyce, L. Gibson, M.P. Milham, C. Baldassano, N. Tottenham. “Neural representations of shared attachment schemas in adolescents following caregiving-related early adversity.” Poster presentation at Flux Congress, Baltimore, MD (2024).
- J. Huang, E. Furness, Y. Liu, M-J. Kenmoe, R. Elias, H.T. Zeng, C. Baldassano. “Accurate predictions facilitate robust memory encoding independently from stimulus probability.” Oral Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2024).
- R. Masís-Obando, C. Baldassano, K.A. Norman. “How strong is your memory palace? Reliable room representations predict subsequent memory for placed objects.” Data Blitz Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2024).
- T. Chamberlain, J. Huang, A. Manglik, H. Tarder-Stoll, R.J. Ajemian, Q. Zhang, K.A. Norman, C. Baldassano. “Conjunctive encoding representations in expert and novice users of the Method of Loci mnemonic technique.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2024).
- M. Nau, H. Tarder-Stoll, A. Greene, J.A. Lossio-Ventura, F. Pereira, C. Baldassano, J. Chen, C. Baker. “Linking brain activity during viewing and recall of movie events through gaze behavior.” Poster Presentation at the Society for Neuroscience Annual Meeting, Washington, DC (2023).
- H. Tarder-Stoll, C. Baldassano\*, M. Aly\*. “Prospective and retrospective representations of temporal structure across hippocampal and visual regions.” Poster Presentation at the Society for Neuroscience Annual Meeting, Washington, DC (2023).
- C.S. Lee, J. Han, M. Feilong, G. Jiahui, J. Haxby, C. Baldassano. “Hyper-HMM: simultaneous temporal and spatial pattern alignment for brains and stimuli.” Oral and Poster Presentation at the Conference on Cognitive Computational Neuroscience, Oxford, UK (2023).
- C.S. Lee, S.S. Cohen, S. Hutchinson, N. Tottenham, C. Baldassano. “Individual differences in narrative and neural representations of attachment schemas in children.” Poster Presentation at the Organization for Human Brain Mapping annual meeting, Montréal, Canada (2023).
- A. Lenders, K. Kleespies, S. Brodt, M. W. Sumner, E. A. McDevitt, C. Baldassano, U. Hasson, K. A. Norman, M. Schönauer. “Rapid formation of a memory engram for complex episodic narratives in the parietal cortex.” Poster Presentation at the Organization for Human Brain Mapping annual meeting, Montréal, Canada (2023).
- J. Huang, A. Manglik, H. Tarder-Stoll, C. Baldassano. “Neural Dynamics of Memory Representation During the Use of Method of Loci.” Poster Presentation at the Organization for Human Brain Mapping annual meeting, Montréal, Canada (2023).
- M. Nau, H. Tarder-Stoll, A. Greene, J. Chen, C. Baldassano, J.A. Lossio-Ventura, F. Pereira, C. Baker. “Linking brain activity during viewing and recall of movie events through gaze behavior.” Poster Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2023).



- C. Durkin, B. Peters, C. Baldassano, E. Kandel, D. Shohamy. “The Beholder’s Share: Cross-subject Variability in Responses to Abstract Art.” Oral Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2023).
- A. Lenders, K. Kleespies, S. Brodt, M. W. Sumner, E. A. McDevitt, C. Baldassano, U. Hasson, K. A. Norman, M. Schönauer. “Rapidly Emerging Engrams In The Human Neocortex Code The Content Of Complex Narratives.” Poster Presentation at 48th Annual Psychologie und Gehirn Conference, Tübingen, Germany (2023).
- H. Tarder-Stoll, C. Baldassano\*, M. Aly\*. “Multistep anticipation improves with consolidation but loses perceptual detail.” Data Blitz presentation at the Context and Episodic Memory Symposium, Walt Disney World, FL (2023).
- M. Silva, X. Wu, E. Conde-Blanco, P. Roldan, M. Carreño, N. Axmacher, C. Baldassano, L. Fuentemilla. “Hippocampal ripple concurrence with movie boundaries.” Poster presentation at the International Conference on Learning and Memory, Huntington Beach, CA (2023).
- W.J. Villano, B.A. Jaso, T.R. Reneau, C. Baldassano, A.S. Heller. “Exploring the generalization of affective schemas through neural event segmentation.” Poster Presentation at the Social and Affective Neuroscience Society annual meeting, Santa Barbara, CA (2023).
- B.M. Silver, C. Baldassano, L. Davachi, K.N. Ochsner. “Do you like me back? Impression formation and motivated memory for potential romantic partners.” Poster Presentation at the Social and Affective Neuroscience Society annual meeting, Santa Barbara, CA (2023).
- S. Shim, F. Mugisho, L. Davachi, C. Baldassano. “Event Segmentation from Working Memory Dynamics in the Absence of Prediction Error.” Poster Presentation at the Cognitive Neuroscience Society annual meeting, San Francisco, CA (2023).
- J. Huang, H. Tarder-Stoll, C. Baldassano. “Tracking neural representations when connecting new information to structured prior knowledge.” Poster Presentation at the International Mind, Brain and Education Society conference, Montréal, Canada (2022).
- J. Huang, I. Velarde, W.J. Ma, , C. Baldassano. “Developing schema, developing prediction, and their influence on memory.” Oral Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2022).
- J. Williams, C. Baldassano, E. Margulis, U. Hasson, K.A. Norman, J. Chen “What’s the score: Music-evoked reactivation of naturalistic events.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2022).
- M. Siegelman, N. Kriegeskorte, C. Baldassano. “Modeling naturalistic schema learning with computer-generated poetry.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2022).
- R. Masís-Obando, K.A. Norman, C. Baldassano. “Decoding mental walkthroughs of spatial memories in an immersive virtual reality environment.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2022).
- J. Huang\*, J.A. Chwe\*, H. Tarder-Stoll\*, C. Durkin\*, H. Dimsdale-Zucker\*, C. Baldassano. “Individual differences in the timing of neural event patterns during emotional stimuli.” SANS Naturalistic fMRI Data Challenge (2022).

- H. Tarder-Stoll, C. Baldassano\*, M. Aly\*. “Top-down modulation of multi-step anticipation in changing environments.” Poster Presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA (2022).
- J. Huang, I. Velarde, W.J. Ma, C. Baldassano.. “Developing Schemas, Developing Predictions, and Their Influence on Episodic Memory.” Poster Presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA (2022).
- C. Baldassano, R. Masís-Obando, K.A. Norman. “Schema representations in distinct brain networks support narrative memory during encoding and retrieval.” Oral Symposium Presentation at the Social and Affective Neuroscience Society meeting (2022).
- C. Baldassano. “Perception and memory using prior knowledge of specific episodes, familiar scripts, and novel schemas.” Oral Presentation at the Memory Disorders Research Society meeting (2021).
- J. Huang, W.J. Ma, C. Baldassano. “Modelling schema development and its role in memory through 4-in-a-row, a two-player, abstract strategy board game.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2021).
- M. Siegelman, N. Kriegeskorte, C. Baldassano. “Modeling naturalistic schema learning with computer-generated poetry.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2021).
- A. Soares, C. Baldassano. “Manipulating Temporal Event Structure via Top-Down Script Activation.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2021).
- J. Huang, W.J. Ma, C. Baldassano. “Modelling schema development and its role in memory through 4-in-a-row, a two-player, abstract strategy board game.” Oral Presentation at Using Games to Understand Intelligence Workshop, Cognitive Science Society virtual meeting (2021).
- T.S. Yates, L.J. Skalaban, C.T. Ellis, A.J. Bracher, C. Baldassano, N.B. Turk-Browne. “How infants carve up continuous experience into neural events.” Poster Presentation and Oral Presentation at the Flux Virtual Congress (2021).
- K. Kleespies, M. Sumner, E. McDevitt, C. Baldassano, U. Hasson, K. Norman, M. Schönauer. “The neocortex rapidly acquires a content-specific representation of naturalistic learning material.” Poster Presentation at Psychologie und Gehirn (2021).
- S. Cohen and C. Baldassano. “Event representations become more stable and predictive with age.” Poster Presentation at the Flux Virtual Congress (2020).
- S. Shim and C. Baldassano. “Event Perception Based on Working Memory Demand.” Poster Presentation at the Columbia Psychology Symposium (2020).
- H. Tarder-Stoll, C. Baldassano, M. Aly. “Multi-Step Prediction and Integration in Naturalistic Environments.” Poster Presentation at the Cognitive Neuroscience Society Virtual Meeting (2020).
- C.S. Lee, M. Aly, C. Baldassano. “Anticipation of temporally structured events in the brain.” Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).
- M.E. Siegelman, N. Kriegeskorte, C. Baldassano. “A neural network model of naturalistic schema learning with computer-generated poetry.” Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).

- S.S. Cohen, C. Baldassano. “The evolution of narrative processing during development.” Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).
- S.A. Nastase, Y. Liu, H. Hillman, A. Zadbood, L. Hasenfratz, N. Keshavarzian, J. Chen, C.J. Honey, Y. Yeshurun, M. Regev, M. Nguyen, C.H.C. Chang, C. Baldassano, O. Lositsky, M.A. Chow, Y.C. Leong, P.P. Brooks, A. Goldstein, G. Choe, K.A. Norman, U. Hasson. “Narratives: fMRI data for evaluating models of naturalistic language comprehension.” Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).
- R. Masis-Obando, U. Hasson, K.A. Norman, C. Baldassano. “Decoding mental walkthroughs of spatial memories in an immersive virtual reality environment.” Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).
- A. Reblando, T. Kelishasi, C. Baldassano. “Manipulating temporal event structure via top-down script activation.” Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).
- C.S. Lee, M. Aly, C. Baldassano. “Anticipation of temporally structured events in the brain.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2019).
- M. Siegelman and C. Baldassano. “Modeling brain representations of structured schematic poetry with recurrent neural networks.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2019).
- M. Silva, C. Baldassano, L. Fuentemilla. “Electrophysiological signatures of event segmentation during movie viewing and recall.” Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2018).
- R. Masis-Obando, K.A. Norman, C. Baldassano. “Decoding mental walkthroughs of spatial memories in an immersive virtual reality environment.” Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2018).
- J. Williams, C. Baldassano, J. Chen, U. Hasson, K.A. Norman. “Exploring event structure in song perception.” Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2018).
- C. Baldassano. “Perception and memory of schematic narrative events.” Oral Presentation at the International Conference on Learning and Memory (2018).
- J. Williams, C. Baldassano, J. Chen, U. Hasson, K.A. Norman. “Exploring event structure in song perception.” Oral Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2018).
- A. Beukers, C. Baldassano, U. Hasson, K.A. Norman. “Learning the statistics of events.” Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2018).
- C. Baldassano, R. Masis-Obando, U. Hasson, K.A. Norman. “Perception and recall of narrative event schemas.” Poster Presentation at the Society for Neuroscience Annual Meeting, Washington, DC (2017).
- J.D. Cohen, M. Lesnick, B. Keller, C. Baldassano, A.C. Schapiro, C.T. Ellis. “Using realistic, synthetic fMRI data to validate Topological Data Analysis as a tool for fMRI.” Poster Presentation at the Society for Neuroscience Annual Meeting, Washington, DC (2017).

- J. A. Williams, J. Chen, C. Baldassano, U. Hasson, K.A. Norman. “Neural representation of musical contexts in high-level cortical regions.” Poster Presentation at the Society for Neuroscience Annual Meeting, Washington, DC (2017).
- I. I. Groen, M.R. Greene, C. Baldassano, L. Fei-Fei, D.M. Beck, C.I. Baker. “Convolutional neural networks best predict representational dissimilarity in scene-selective cortex: comparing computational, object and functional models.” Oral Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2017).
- I. I. Groen, M.R. Greene, C. Baldassano, D.M. Beck, L. Fei-Fei, C.I. Baker. “Comparing computational, object and functional models of scene representation in the human brain.” Oral Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2016).
- M. Regev, E. Simony, C. Baldassano, U. Hasson. “Attention selectively modulates dynamical functional connectivity in processing of simultaneously presented spoken and written narratives.” Oral Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2016).
- C. Baldassano, U. Hasson, K.A. Norman. “Representation of real-world event schemas during narrative perception.” Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2016).
- J.W. Antony, C. Baldassano, M. Aly, K.A. Norman, N.B. Turk-Browne. “Reconstructing spatial location and forward planning during navigation.” Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2016).
- C. Baldassano, J. Chen, J. Pillow, U. Hasson, K. Norman. “Discovering event structure in continuous narrative perception and memory.” Oral Presentation at the Manhattan Area Memory Meeting, New York, NY (2016).
- C. Baldassano, J. Chen, J. Pillow, U. Hasson, K. Norman. “Tracking brain activity during continuous perception and recall.” Oral Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2016).
- C. Baldassano\*, A. Saxe\*. “A theory of learning dynamics in perceptual decision-making.” Poster Presentation at the Computational and Systems Neuroscience (Cosyne) conference, Salt Lake City, NV (2016).
- C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei. “Two distinct scene processing networks connecting vision and memory.” Oral Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2015).
- C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei. “Two distinct scene processing networks connecting vision and memory.” Oral Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2015).
- M.R. Greene, C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei. “Functions Provide a Fundamental Categorization Principle for Scenes.” Oral Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2015).
- C. Baldassano, D.M. Beck, L. Fei-Fei. “Parcellating connectivity in spatial maps.” Poster Presentation at BayLearn (Bay Area Machine Learning Symposium), Berkeley, CA (2014).
- C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei. “Comparing and parcellating voxel-scale multimodal human brain connectivity.” Poster Presentation at the Fourth Biennial Conference on Resting State / Brain Connectivity, Cambridge, MA (2014).

- C. Baldassano, D.M. Beck, L. Fei-Fei. "Supervoxel parcellation of visual cortex connectivity." Poster Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2014).
- C. Baldassano, D.M. Beck, L. Fei-Fei. "Differential Connectivity Within the Parahippocampal Place Area." Oral Presentation at the Vision Sciences Society Annual Meeting, Naples, FL (2013).
- C. Baldassano, D.M. Beck, L. Fei-Fei. "Differential Connectivity Within the Parahippocampal Place Area." Poster Presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA (2013).
- C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Discovering Voxel-Level Functional Connectivity Between Cortical Regions." Oral and Poster Presentation at the Machine Learning and Interpretation in NeuroImaging Workshop, NIPS (2012).
- C. Baldassano, D.M. Beck, L. Fei-Fei. "Neural Representation of Human-Object Interactions." Oral Presentation at the Vision Sciences Society Annual Meeting, Naples, FL (2012).
- A.G. Lustig, C. Baldassano, E. Caddigan, L. Fei-Fei, D.M. Beck. "Does category-based attention change the representation of scene category?" Poster Presentation at the Cognitive Neuroscience Society Annual Meeting, Chicago, IL (2012).
- M.C. Iordan, C. Baldassano, D.B. Walther, D.M. Beck, L. Fei-Fei. "Translation Invariance of Natural Scene Categories." Oral Presentation at the Vision Sciences Society Annual Meeting, Naples, FL (2011).
- C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Fine-Grained Functional Connectivity using Spatial Regularization." Poster Presentation at the NIPS Workshop on Machine Learning and Interpretation in Neuroimaging (2011).
- C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Objects in context: decoding and connectivity." Poster Presentation at the Collaborative Research in Computational Neuroscience Principal Investigator Meeting, Princeton, NJ (2011).
- C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Decoding objects undergoing contextual violations." Poster Presentation at the Vision Sciences Society Annual Meeting, Naples, FL (2011).