

Abigail L. Noyce

Curriculum Vitae

May 16, 2025

Address: Department of Psychology, Carnegie Mellon University,
Pittsburgh, PA

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Academic positions

Assistant Research Professor	2022–present
Special Faculty	2020–2022
Neuroscience Institute	
Department of Psychology (courtesy)	
Carnegie Mellon University, Pittsburgh, PA	
Research Assistant Professor	2019
Department of Psychological and Brain Sciences	
Boston University, Boston, MA	

Education

Postdoctoral	Boston University, Boston, MA	2014–2018
Ph.D., Psychology	Brandeis University, Waltham, MA	2014
M.A., Psychology	Brandeis University, Waltham, MA	2012
B.A., Psychology	University of New Hampshire, Durham, NH	2007

Grants and funding

Extramural

How spatial cues support communication: Interactions between auditory spatial features and task demands across cortical networks	2025–2029
NIH R01 (pending), PI: Christopher A. Brown	
Role: co-investigator	
\$3,483,121	
Sensory-Biased Working Memory & Attention Networks in the Human Brain	2018–2021
NSF grant 1829394, PI: David C. Somers	
Role: research scientist	
\$591,061	
Multiplexed frontal cortex organization for flexibility in short-term memory	2016–2018
NIH NRSA F32-EY026796, Principal Investigator	
\$146,000	

Intramural

Functional differentiation of auditory attention and working memory in human frontal cortex 2020–2021

CMU-Pitt BRIDGE Center Seed Grant, **Principal Investigator**
\$24,960

Brain-Body-Behavior Interface in Learning and Development 2009–2011
NIH grant T32-GM084907, PI: Robert Sekuler
Role: pre-doctoral trainee

Teaching

Creating open-access lab assignments for research methods 2024–2025
Open CMU: Pilot OER Engagement Project

Peer-reviewed publications

- Villalonga, M. B., **Noyce**, A. L., & Sekuler, R. (2025). Dynamic modulation of spatial selection: Online and anticipatory adjustments in the flanker task. *Attention, Perception, & Psychophysics*.
- Noyce**, A. L., Varghese, L., Mathias, S. R., & Shinn-Cunningham, B. G. (2024). Perceptual organization and task demands jointly shape auditory working memory capacity. *JASA Express Letters*, 4(3), 034402.
- Fleming, J. T., Njoroge, J. M., **Noyce**, A. L., Perrachione, T. K., & Shinn-Cunningham, B. G. (2024). Sensory modality and information domain contribute jointly to dual-task interference between working memory and perceptual processing. *Imaging Neuroscience*, 2, 1–22.
- Kwasa, J. A. C., **Noyce**, A. L., Torres, L. M., Richardson, B., & Shinn-Cunningham, B. G. (2023). Top-down attention modulates auditory-evoked neural responses more strongly in neurotypical than ADHD young adults. *Brain Research*, 1798, 148144.
- Noyce**, A. L., Kwasa, J. A. C., & Shinn-Cunningham, B. G. (2023). Defining attention from an auditory perspective. *WIREs Cognitive Science*, 14(1), e1610.
- Noyce**, A. L., Lefco, R., Tobyne, S. M., Brissenden, J. A., Shinn-Cunningham, B. G., & Somers, D. C. (2022). Extended frontal networks for visual and auditory working memory. *Cerebral Cortex*, 32(4), 855–869.
- Bulger, E., Shinn-Cunningham, B. G., & **Noyce**, A. L. (2021). Distractor probabilities modulate flanker task performance. *Attention, Perception, & Psychophysics*, 83, 866–881.
- Somers, D. C., Michalka, S. W., Tobyne, S. M., & **Noyce**, A. L. (2021). Individual subject approaches to mapping sensory-biased and multiple-demand regions in human frontal cortex. *Current Opinion in Behavioral Sciences*, 40, 169–177.

- Bonacci, L., Bressler, S., **Noyce**, A. L., & Shinn-Cunningham, B. G. (2020). Effects of visual scene complexity on neural signatures of spatial attention. *Frontiers in Human Neuroscience*, 14, 91.
- Fleming, J., **Noyce**, A. L., & Shinn-Cunningham, B. G. (2020). Audio-visual spatial alignment improves integration in the presence of a competing audio-visual stimulus. *Neuropsychologia*, 146, 107530.
- Lefco, R. W., Brissenden, J. A., **Noyce**, A. L., Tobyne, S. M., & Somers, D. C. (2020). Gradients of functional organization in posterior parietal cortex revealed by visual attention, visual short-term memory, and intrinsic functional connectivity. *NeuroImage*, 219, 117029.
- Tobyne, S. M., Somers, D. C., Brissenden, J. A., Michalka, S. W., **Noyce**, A. L., & Osher, D. E. (2018). Prediction of individualized task activation in sensory-modality selective frontal cortex with ‘connectome fingerprinting’. *NeuroImage*, 183, 173–185.
- Noyce**, A. L., Cestero, N., Michalka, S. W., Shinn-Cunningham, B. G., & Somers, D. C. (2017). Sensory-biased and multiple-demand processing in human lateral frontal cortex. *Journal of Neuroscience*, 37, 8755–8766.
- Noyce**, A. L., Cestero, N., Shinn-Cunningham, B. G., & Somers, D. C. (2016). Short-term memory stores are organized by information domain. *Attention, Perception, & Psychophysics*, 78, 960–970.
- Noyce**, A. & Sekuler, R. (2014). Oddball distractors demand attention: Neural and behavioral responses to predictability in the flanker task. *Neuropsychologia*, 65, 18–24.
- Noyce**, A. & Sekuler, R. (2014). Violations of newly-learned predictions elicit two distinct P3 components. *Frontiers in Human Neuroscience*, 8, 374.
- Maryott, J., **Noyce**, A., & Sekuler, R. (2011). Eye movements and imitation learning: Intentional disruption of expectation. *Journal of Vision*, 11(1:7), 1–16.
- A. Noyce and L. Varghese shared first authorship of the 2024 *JASA Express Letters* paper. J. Maryott & A. Noyce shared first authorship of the 2011 *Journal of Vision* paper.

Current preprints (not yet peer-reviewed)

- An, W. W., **Noyce**, A., Pei, A., & Shinn-Cunningham, B. (submitted). Neural representation of spatial and non-spatial auditory attention in EEG signals. Preprint posted at <https://www.biorxiv.org/content/10.1101/2023.07.13.548897v1>.
- Tobyne, S. M., Brissenden, J. A., **Noyce**, A. L., & Somers, D. C. (submitted). Combined auditory, tactile, and visual fMRI reveals sensory-biased and supramodal working memory regions in human frontal cortex. Preprint posted at.

Conference presentations and peer-reviewed abstracts

Talks

- Liang, W., **Noyce**, A., Brown, C. A., & Shinn-Cunningham, B. (2025, June). *Behavior and electroencephalography demonstrate that interaural level differences enhance attentional focus*. To be presented at the International Symposium on Hearing, Vienna, Austria.
- Noyce**, A., Liang, W., Manjanath, M., Brown, C., & Shinn-Cunningham, B. (2025, May). *Auditory spatial cues influence cross-modal recruitment of visual prefrontal cortex*. To be presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Noyce**, A. L. (2025, February). *"Hearing with the eyes": Visual perception for auditory scientists*. Presented at the annual midwinter meeting of the Association for Research in Otolaryngology, Orlando, FL.
- Figarola, V., **Noyce**, A., Tierney, A., Maddox, R., Dick, F., & Shinn-Cunningham, B. (2023, December). *Attention modulates cortical responses but not subcortical responses*. Presented at the 185th meeting of the Acoustical Society of America (ASA), Sydney, Australia.
- Noyce**, A., Guo, W., An, W., & Shinn-Cunningham, B. (2023, May). *Visual cortical regions carry information about auditory attention*. Presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Kwasa, J. A. C., **Noyce**, A. L., & Shinn-Cunningham, B. G. (2022, May). *Measuring EEG correlates of individual differences in visual and auditory top-down attention*. Presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Bulger, E., Shinn-Cunningham, B., & **Noyce**, A. (2022, February). *Measuring auditory attention and working memory in human prefrontal cortex using fMRI*. Presented at the midwinter meeting of the Association for Research in Otolaryngology, San Jose, CA.
- Noyce**, A. L. & Shinn-Cunningham, B. G. (2021, February). *Brain networks for spatial attention in audition*. Presented at the midwinter meeting of the Association for Research in Otolaryngology, virtual.
- Noyce**, A. L., Lefco, R., Brissenden, J. A., Tobyne, S. M., Somers, D. C., & Shinn-Cunningham, B. G. (2019, February). *Extended frontal networks for auditory cognition*. Presented at the annual midwinter meeting of the Association for Research in Otolaryngology, Baltimore, MD.
- Noyce**, A. L., Tobyne, S. M., Shinn-Cunningham, B. G., & Somers, D. C. (2018, November). *Sensory-selective and sensory-independent auditory and visual working memory in human cerebral cortex*. Presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Noyce**, A. L., Tobyne, S. M., Michalka, S. W., Osher, D. E., Shinn-Cunningham, B. G., & Somers, D. C. (2017, May). *Visual, spatial, or visuospatial? Disentangling sensory modality and task demands in frontal cortex*. Presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

- Tobyne, S. M., Osher, D. E., Michalka, S. W., **Noyce**, A. L., & Somers, D. C. (2016, November). *Functional connectivity predicts individual differences in sensory-biased caudolateral prefrontal cortex response to attention and working memory*. Presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Noyce**, A. & Sekuler, R. (2016, May). *Nonparametric statistical approaches to neuroimaging data*. Presented at the 171st meeting of the Acoustical Society of America, Salt Lake City, UT.
- Noyce**, A. L., Michalka, S. W., Cestero, N., Shinn-Cunningham, B. G., & Somers, D. C. (2016, May). *Frontal lobe contributions to auditory and visual working memory*. Presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Noyce**, A. L., Somers, D. C., & Shinn-Cunningham, B. G. (2016, February). *Auditory attention networks in the frontal lobe show strong sensory modality preferences*. Presented at the annual midwinter meeting of the Association for Research in Otolaryngology, San Diego, CA.
- Shinn-Cunningham, B., Michalka, S., **Noyce**, A., & Somers, D. (2015, May). *Understanding cross-modal interactions of spatial and temporal information from a cortical perspective*. Presented at the 169th meeting of the Acoustical Society of America, Pittsburgh, PA.
- Noyce**, A. & Sekuler, R. (2012, May). *Short-term memory resolution changes faster than capacity in visuomotor sequence learning*. Presented at the annual meeting of the Vision Sciences Society, Naples, FL.

Selected posters (since 2019)

- Liang, W., **Noyce**, A., Brown, C. A., & Shinn-Cunningham, B. (2025, May). *Auditory spatialization approaches differentially recruit sensory-biased prefrontal cortex*. Poster to be presented at the joint 188th meeting of the Acoustical Society of America and the 25th International Congress on Acoustics, New Orleans, LA.
- Luthra, S., Kim, H., Liang, W., **Noyce**, A., & Shinn-Cunningham, B. G. (2025, May). *Do talker effects on auditory segregation vary with task demands?* Poster to be presented at the joint 188th meeting of the Acoustical Society of America and the 25th International Congress on Acoustics, New Orleans, LA.
- Gilman, A. T. & **Noyce**, A. (2025, March). *What role does depth of processing play in the picture superiority effect?* Poster to be presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.
- Noyce**, A., Li, W. Y., Bulger, E., & Shinn-Cunningham, B. (2025, March). *Perceptual similarity predicts item recognition errors but not serial order errors in auditory working memory*. Poster to be presented at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.
- Li, Y., Figarola, V., **Noyce**, A. L., Tierney, A. T., Maddox, R. K., Dick, F., & Shinn-Cunningham, B. (2024, October). *Effects of sustained auditory selective attention on cortical and sub-*

cortical representations of sound. Poster presented at the annual meeting of the Society for Neuroscience.

- Manjanath, M., Luthra, S., Liang, W., Shinn-Cunningham, B., & **Noyce**, A. (2024, October). *Assessing evidence for tonotopic organization of auditory-biased regions in prefrontal cortex using fMRI*. Poster presented at Advances and Perspectives in Auditory Neuroscience, Chicago, IL.
- Gilman, A., **Noyce**, A., & Norberg, C. (2024, May). *Drawings and words show a recall advantage over object photos*. Poster presented at the annual meeting of the Vision Sciences Society, St Pete Beach, FL.
- Noyce**, A. L., Devgan, M., & Shinn-Cunningham, B. G. (2024, May). *Socially-relevant non-linguistic audiovisual stimuli for perceptual and cognitive experiments*. Poster presented at the annual meeting of the Vision Sciences Society.
- Noyce**, A., An, W., Guo, W., Li, Y., & Shinn-Cunningham, B. (2024, April). *Dynamic neural representations of auditory selective attention*. Poster and data blitz presented at the annual meeting of the Cognitive Neuroscience Society, Toronto, ON, Canada.
- Figarola, V., Liang, W., **Noyce**, A., & Shinn-Cunningham, B. (2024, February). *The effect of reverberation on interrupted spatial attention*. Poster presented at the annual midwinter meeting of the Association for Research in Otolaryngology, Anaheim, CA.
- Li, W. Y., Bulger, E., **Noyce**, A., & Shinn-Cunningham, B. (2024, February). *CAT-egorical perceptual similarity does not explain memory organization of auditory sequences*. Poster presented at the annual midwinter meeting of the Association for Research in Otolaryngology, Anaheim, CA.
- Figarola, V., **Noyce**, A., Tierney, A., Maddox, R., Dick, F., & Shinn-Cunningham, B. (2023, November). *Selective attention modulates cortical but not subcortical responses*. Poster presented at the annual meeting of the Society for Neuroscience.
- Figarola, V., **Noyce**, A., Tierney, A., Maddox, R., Dick, F., & Shinn-Cunningham, B. (2023, June). *Attention modulates cortical responses but not subcortical responses*. Poster presented at the Hearing in Noise Summer School, Lyon, France.
- Schalles, M., Pei, A., **Noyce**, A., Mulsow, J., Houser, D., Finneran, J. J., ... Shinn-Cunningham, B. (2023). *EEG study of attention on an auditory target detection task in dolphins and humans*. Poster presented at the 182nd meeting of the Acoustical Society of America.
- Figarola, V., **Noyce**, A., Tierney, A., Maddox, R., Dick, F., & Shinn-Cunningham, B. (2023, February). *Effect of attentional modulation on cortical and subcortical responses to competing streams*. Poster presented at the annual midwinter meeting of the Association for Research in Otolaryngology, Orlando, FL.
- Guo, W., An, W., **Noyce**, A., & Shinn-Cunningham, B. (2023, February). *Neural representation of selective auditory attention in fMRI*. Poster presented at the midwinter meeting of the Association for Research in Otolaryngology, Orlando, FL.
- An, W., **Noyce**, A., Pei, A., & Shinn-Cunningham, B. (2022, February). *Neural activation and representations during auditory selective attention in fMRI*. Poster accepted at the mid-

winter meeting of the Association for Research in Otolaryngology, San Jose, CA. [Meeting cancelled due to covid.]

An, W., **Noyce**, A., Pei, A., & Shinn-Cunningham, B. (2022, February). *Neural representation of auditory selective attention in EEG signals*. Poster accepted at the midwinter meeting of the Association for Research in Otolaryngology, San Jose, CA. [Meeting cancelled due to covid.]

An, W. W., Pei, A., **Noyce**, A. L., & Shinn-Cunningham, B. (2021, November). *Decoding auditory attention from EEG using a convolutional neural network*. Presented at IEEE Engineering in Medicine and Biology Conference.

Bulger, E., Shinn-Cunningham, B. G., & **Noyce**, A. L. (2021, November). *Auditory attention and working memory in human prefrontal cortex*. Poster presented at Advances and Perspectives in Auditory Neuroscience.

Bulger, E., Shinn-Cunningham, B. G., & **Noyce**, A. L. (2021, May). *Expected and unexpected distractors in the Eriksen flanker task*. Poster presented at the annual meeting of the Vision Sciences Society.

An, W. A., Pei, A., **Noyce**, A., & Shinn-Cunningham, B. (2020, July). *Decoding auditory attention from single-trial EEG for a high-efficiency brain-computer interface*. Presented at the 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society.

Fleming, J. T., Njoroge, M., Perrachione, T. K., Shinn-Cunningham, B. G., & **Noyce**, A. L. (2020, May). *Task interference incurs greater costs than task switching: A simultaneous EEG-pupillometry investigation of visual and auditory working memory*. Poster accepted at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL. [Meeting canceled due to covid.]

Fleming, J. T., Njoroge, M., **Noyce**, A. L., Perrachione, T. K., & Shinn-Cunningham, B. G. (2020, March). *Sensory modality and information domain modulate behavioral and neural signatures of working memory interference*. Poster accepted at the annual meeting of the Cognitive Neuroscience Society, Boston, MA. [Meeting cancelled due to covid19.]

Tong, N., **Noyce**, A. L., Tripathi, V., Tobyne, S. M., Lindsay, M. J., Thayer, G., ... Somers, D. C. (2020, March). *Measuring working memory in visual, auditory, and tactile sensory modalities*. Poster accepted at the annual meeting of the Cognitive Neuroscience Society, Boston, MA. [Meeting cancelled due to covid19.]

An, W., **Noyce**, A., Pei, A., & Shinn-Cunningham, B. (2020, February). *Extracting neural representations of auditory attentional processes from fMRI using multivariate pattern analysis*. Poster presented at the annual midwinter meeting of the Association for Research in Otolaryngology, San Jose, CA.

Noyce, A. L., Lefco, R. W., Brissenden, J. A., Tobyne, S. M., Shinn-Cunningham, B. G., & Somers, D. C. (2019, May). *Visual-biased frontal structures are preferentially connected to multi-sensory working memory regions*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.

Tong, N., Shearer, B., Somers, D., & **Noyce, A.** (2019, March). *Beyond g: Individual differences in visual and auditory working memory*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Seminars and colloquia

Invited talks

Sensory specialization is a key organizing principle for human cognition. Carnegie Mellon University, Pittsburgh, PA	2023
Visual and auditory cognition in frontal cortex. Stanford University, Stanford, CA	2021
Brain networks for visual and auditory working memory. Pitzer College, Claremont, CA	2018
Frontal lobe contributions to visual and auditory cognition. College of the Holy Cross, Worcester, MA	2017
Frontal lobe contributions to visual and auditory cognition. Bridgewater State University, Bridgewater, MA	2017
Frontal cortex in short-term memory for space and time. University of New Hampshire, Durham, NH	2016
Neural flexibility underlying attention and memory. Juniata College, Huntingdon, PA	2015

Teaching Experience

Carnegie Mellon University

Research Methods in Cognitive Psychology	2020–2025
Cognitive Psychology	2022

Boston University

Experimental Psychology: Perception	2019
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Wellesley College

Technology & Human Cognition	2019
Sensation and Perception	2018

Brandeis University

Perception: Human, Animal, Machine	2012
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Teaching assistants supervisedCarnegie Mellon University

Graduate TAs	T. Hong (fall '24), J. Black (spring '24), A. Luor (fall '23, spring '23), Y. Zhou (fall '22, spring '22), R. Belkhir (spring '21), M. Granovetter (fall '20)
Undergraduate TAs	H. Peng (spring '25), C. Echeverri (fall '24, spring '24), M. Liu (fall '23, fall '22), J. Smith (spring '23), K. Park (fall '22), J. Yeom (fall '22), L. Zhang (fall '22)

Boston University; Brandeis University

Graduate TAs	Y. Chen (fall '19), S. Panic (spring '12)
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Research trainees supervised or mentoredCarnegie Mellon University

Undergraduate students	Y. Li ('25), M. Devgan ('26), Y. Kim ('24), O. Walankiewicz (SPUR '24), L. Huang ('24), C. Hua ('23), R. Cao ('20).
Graduate students	K. Chase (Ph.D. '29), J. Kim (Ph.D. '29), H. Kim (first-year Ph.D. rotation '24), E. Bulger (Ph.D. '26), V. Figarola (Ph.D. '26), W. Liang (Ph.D. '26), M. Manjunath (M.Eng. '24), W. Gu (M.Eng. '23), Y. Li (M.Eng. '23), W. An (Ph.D. '21), J. Kwasa (Ph.D. '21)
Postdocs	S. Luthra (2024–2025), C. Repetti-Ludlow (2024–), J. Kwasa (2021–2024)
Research staff	Z. Kocsis (research scientist, 2024–), M. Manjunath (RA, 2025), M. Brown (RA, 2025–), M. Adimurthy (RA, 2024–2025), N. Jesnionowski (RA, 2023–2025), A. Irvine (Lab Manager, 2018–), Y. Li (RA, 2023–2024)

Boston University

Undergraduate students	L. Zhao (RISE 2018), N. Tong ('18), K. Gomez ('18; UROP grant), G. Belok ('17), J. Lynch ('16; UROP grant; senior honors), N. Cestero ('16; senior honors), K. Martin ('14).
Graduate students	J. Fleming (Harvard Ph.D. '20), C. Pirrung (MA '19), C. Clayton (M.Eng. '18), N. Bowers (MA '15).

Brandeis University

Undergraduate students	A. Keller (BS/MS '16), B. Dorfman ('16), A. Aizenman ('13), R. Meyer ('11).
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SPUR: Summer Program for Undergraduate Research (REU); RA: Research Assistant; RISE: Research in Science and Engineering (internship for high school seniors); UROP: Undergraduate Research Opportunities Program.

Evidence of teaching innovation

- Bender, S. (2024, August 23). Libraries Reduces Cost of Education Through OER Initiatives. In *CMU Library News*, <https://library.cmu.edu/about/news/2024-08/oer-initiatives>
- Krinsky, S. & Bosley, R. (Hosts). (2024, July 9). Progress tracking: Communicating with students to encourage learning and promote buy-in (No. 52). [Audio podcast episode]. In *The Grading Podcast*, <https://thegradingpod.com/episodes/52-progress-tracking-communicating-with-students-to-encourage-learning-and-promote-buy-in/>
- Noyce**, A. L. & Largent, D. (2023, March 6). Using the Canvas gradebook with specifications grading. *Grading for Growth*. <https://gradingforgrowth.com/p/using-the-canvas-gradebook-with-specifications>

Leadership and service

Professional community

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| Organizing committee, BobFest, Brandeis University | 2025 |
| Co-chair, <i>Bridging the senses: Lessons learned at the intersection of audition and vision</i> , Young Investigator Symposium, ARO Midwinter Meeting | 2025 |
| Panelist & ad hoc reviewer, National Science Foundation | 2021–2025 |
| Editor & Feedback Reviewer, Application Statement Feedback Project | 2023–2024 |
| <u>Graduate thesis committees:</u> | |
| Mercedes Villalonga, Ph.D. Psychology, Brandeis University | 2024 |
- BobFest: a festschrift for Robert Sekuler; ARO: Association for Research in Otolaryngology

Department and university (Carnegie Mellon University)

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| General member, Steering Committee, CMU-Pitt BRIDGE Center | 2024–present |
| Professional development presenter, SPUR, Dept. of Psychology | 2024 |
| Organizing chair, Games for Engaged Learning workshop | 2019 |
| <u>Doctoral thesis committees:</u> | |
| Eli Bulger, Ph.D. Biomedical Engineering | est. 2026 |
| Wusheng Liang, Ph.D. Electrical and Computer Engineering | est. 2026 |
| Wenkang "Winko" An, Ph.D. Electrical and Computer Engineering | 2021 |
| Jasmine Kwasa, Ph.D. Electrical and Computer Engineering | 2021 |
| <u>Doctoral first-year committees:</u> | |
| Katie Chase, Ph.D., Psychology | 2025 |
| Jinhee Kim, Ph.D., Psychology, | 2025 |
| <u>Masters thesis reader:</u> | |
| Madhumitha Manjunath, M.Eng., Biomedical Engineering | 2024 |
| Weizhe Guo, M.Eng., Biomedical Engineering | 2023 |

BRIDGE: Brain Imaging Data Generation & Education; SPUR: Summer Program for Undergraduate Research (REU)

Department and university (Boston University; Brandeis University; UNH)Undergraduate thesis committees:

Nishmar Cestero, Psychology, Boston University	2016
James Lynch, Neuroscience, Boston University	2016
Seminar Coordinator, Brain, Behavior, and Cognition, BU Psychology	2014–2016
Organizing Chair, CELEST Prediction Errors In Cognition workshop	2013
Co-President, CELEST Student and Post-Doc Organization	2011–2012
Editorial board, <i>Inquiry: UNH Undergraduate Research Journal</i>	2006–2007
CELEST: Center of Excellence For Learning In Education, Science, & Technology (Boston University & Brandeis University)	

Non-academic

Troop leader, Girl Scouts of Western Pennsylvania	2022–present
Executive board member at large, Arisia science fiction convention	2015–2017
Event lead, MIT Educational Studies Program	2008–2014
New chapter mentor, Learning Unlimited	2011–2016
Assistant Division Head & Division Head for Technical Services, Arisia science fiction convention	2009–2016

Outreach and community education

AP Psychology guest speaker, Winchester Thurston School	2025
Judge, Pittsburgh Regional Science and Engineering Fair	2022
Panelist, Arisia and Pi-Con science fiction conventions	2014–2019
Volunteer teacher, MIT Educational Studies Program	2004–2017

Ad-hoc reviewer

- *Attention, Perception, & Psychophysics*
- *Cognition*
- *Cognitive Neuroscience*
- *Cognitive Research: Principles and Implications*
- *eLife*
- *Imaging Neuroscience*
- *Journal of the Acoustical Society of America*
- *Journal of Experimental Psychology: General*
- *Journal of Experimental Psychology: Human Perception and Performance*
- *Journal of Neurophysiology*
- *Journal of Vision*
- *Memory & Cognition*
- *NeuroImage*
- *PeerJ*
- *PLoS ONE*
- *Progress in Neurobiology*
- *Psychonomic Bulletin & Review*

Membership in professional organizations

Association for Research in Otolaryngology
 Cognitive Neuroscience Society
 Society for Neuroscience
 Vision Sciences Society