

## Andrew B. Leber, Ph.D.

Curriculum Vitae

3/10/2022

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### **Current Professional Appointments**

The Ohio State University, Columbus OH

2018 - present      *Associate Professor*, Department of Psychology

2019 - present      *Director*, Center for Cognitive & Brain Sciences

2016 - present      *Mentor Faculty*, Neuroscience Graduate Program

2016 - present      *Mentor Faculty*, Medical Scientist Training Program

2012 - present      *Affiliate*, Center for Cognitive & Behavioral Brain Imaging

2012 - present      *Affiliate*, Center for Cognitive & Brain Sciences

### **Previous Primary Appointments**

The Ohio State University, Columbus, OH

2012 - 2018      *Assistant Professor*, Department of Psychology

2017 - 2019      *Associate Director*, Center for Cognitive & Brain Sciences

University of New Hampshire, Durham, NH

2007 - 2012      *Assistant Professor*, Department of Psychology

Yale University, New Haven, CT

2003 - 2007      *Postdoctoral Fellow*, Department of Psychology

### **Previous Additional Appointments**

University of New Hampshire, Durham, NH

2012 - 2013      *Affiliate Assistant Professor*, Department of Psychology

Harvard University, Cambridge, MA

2009 - 2012      *Associate*, Department of Psychology

Yale School of Medicine, New Haven, CT

2008 - 2012      *Affiliate*, Magnetic Resonance Research Center

National Institute for Advanced Industrial Science and Technology, Tsukuba, Japan

2007      *Visiting Research Scientist*, Inst. for Human Sci. and Biomedical Engineering

### **Education and Training**

2003 - 2007      Yale University, New Haven, CT.

Postdoctoral training, Department of Psychology

Advisor: Marvin M. Chun

1998 - 2003      Johns Hopkins University, Baltimore, MD.

Ph.D. (2003), Psychological and Brain Sciences

M.A. (2000), Psychology

1994 - 1998 Rutgers University, New Brunswick, NJ.  
Advisor: Howard Egeth  
B.A. (1998), Psychology; minors in Philosophy and Cognitive Science

### **Fellowships and Awards**

2011 - 2012 UNH Hortense Cavis Shepherd Professorship. *University-wide, awarded by the Provost to one untenured faculty member based on nominations from Deans; 3-year term.*  
2009 University of New Hampshire Summer Faculty Fellowship  
2004 - 2007 NIH/NIMH Individual Postdoctoral National Research Service Award  
2001, 2003 J. Brien Key Fund Award, Johns Hopkins University  
2000 Villanova Attraction, Distraction, and Action Conference Travel Award

### **Current Funding**

2020 - 2023 **National Science Foundation (BCS-2021038)**  
Title: Developing a comprehensive profile of attentional control strategy  
PI: Andrew Leber  
Total Costs: \$548,904

2019 - 2022 **National Science Foundation (BCS-1848939)**  
Title: Visual feature perception during dynamic spatial attention and distraction  
PI: Julie Golomb; co-PI: Andrew Leber  
Total Costs: \$450,265

### **Completed Funding**

2016 - 2020 **National Science Foundation (BCS-1632296)**  
Title: Characterizing the determinants of goal-driven attentional control  
PI: Andrew Leber  
Initial Award: \$499,998  
REU Supplement (2017 - 2018): \$5,000  
REU Supplement (2019 - 2020): \$5,000  
Total Costs: \$509,998

2017 - 2018 **National Science Foundation (BCS-1734081)**  
Title: 25<sup>th</sup> Annual Workshop on Object Perception, Attention, & Memory  
PI: Andrew Leber  
Senior Personnel: Emma Wu Dowd, Eric Taylor, and Steven Franconeri  
Total Costs: \$18,260

2010 - 2014 **United States - Israel Binational Science Foundation (2009425)**  
Title: Mechanisms underlying Priming of Popout  
PIs: Dominique Lamy and Andrew Leber  
Total Costs: \$126,000

2010 - 2013 **National Science Foundation (BCS-1027054)**  
Title: Mechanisms of attentional control revealed by temporal fluctuations in neural activity  
PI: Andrew Leber

Total Costs: \$299,999

### **Manuscripts Published / In Press**

Google Scholar: <https://goo.gl/tU8xGd>

Thompson Reuters ResearcherID: <http://www.researcherid.com/rid/F-1887-2010>

PubMed (NCBI) My Bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/andrew.leber.1/bibliography/public/>

Li, W. Y., McKinney, M. R., Irons, J. L., & Leber, A. B. (in press). Generalization of attentional control strategies across distinct tasks. *Journal of Experimental Psychology: Human Perception & Performance*.

Public preprint: <https://doi.org/10.31234/osf.io/jvube>

Clarke, A. D. F., Irons, J. L., James, W., Leber, A. B., & Hunt, A. R. (2022). Stable individual differences in strategies within, but not between, visual search tasks. *Quarterly Journal of Experimental Psychology*, 75 (2), 289-296.

<https://doi.org/10.1177/1747021820929190>

Leber, A. B. (2021). Understanding of attentional suppression is incomplete without consideration of motivation and context. *Visual Cognition*, 29 (9), 614-617.

<https://doi.org/10.1080/13506285.2021.1928807>

Hansen, H. A., Leber, A. B., & Saygin, Z. (2021). What sound sources trigger misophonia? Not just chewing and breathing. *Journal of Clinical Psychology*, 77 (11), 2609-2625.

<https://doi.org/10.1002/jclp.23196>

Scotti, P., Hong, Y., Leber, A. B., & Golomb, J.D. (2021). Visual working memory items drift apart due to active, not passive, maintenance. *Journal of Experimental Psychology: General*, 150 (12), 2506-2524.

<https://doi.org/10.1037/xge0000890>

Scotti, P. S., Hong, Y., Golomb, J. D., & Leber, A. B. (2021). Statistical learning as a reference point for memory distortions: swap and shift errors. *Attention, Perception & Psychophysics*, 83, 1652-1672.

<https://doi.org/10.3758/s13414-020-02236-3>

Irons, J. L. & Leber (2020). Developing an individual profile of attentional control strategy. *Current Directions in Psychological Science*, 24 (4), 364-371.

<https://doi.org/10.1177/0963721420924018>

Geng, J. J., Leber, A. B., & Shomstein, S. (2019). Attention and Perception: 40 reviews, 40 views. *Current Opinion in Psychology*, 29, v-viii.

<https://doi.org/10.1016/j.copsyc.2019.09.001>

Leber, A.B. & Irons, J. L. (2019). A methodological toolbox for investigating attentional strategy. *Current Opinion in Psychology*, 29, 274-281.

<https://doi.org/10.1016/j.copsyc.2019.08.008>

Chen, J., Leber, A. B., & Golomb, J. D. (2019). Attentional capture alters feature perception. *Journal of Experimental Psychology: Human Perception & Performance*, 45(11), 1443-1454.

<https://doi.org/10.1037/xhp0000681>

Hansen, H. A., Irons, J. L., & Leber, A. B. (2019). Taking stock: the role of perceptual appraisal in the strategic use of attentional control. *Attention, Perception & Psychophysics*, 81(8), 2673-2684.

<https://doi.org/10.3758/s13414-019-01769-6>

- Gwinn, R. E., Leber, A. B., & Krajbich, I. (2019). The spillover effects of attentional learning on value-based choice. *Cognition*, *182*, 294-306.  
<https://doi.org/10.1016/j.cognition.2018.10.012>
- Won, B. Y. & Leber, A. B. (2018). Failure to exploit learned spatial value information during visual search. *Visual Cognition*, *26* (7), 482-499.  
<https://doi.org/10.1080/13506285.2018.1500502>
- Irons, J. L. & Leber, A. B. (2018). Characterizing individual variation in the strategic use of attentional control. *Journal of Experimental Psychology: Human Perception & Performance*, *44* (10), 1637-1654.  
<https://doi.org/10.1037/xhp0000560>
- Hilchey, M. D., Leber, A. B., & Pratt, J. (2018). Testing the role of response repetition in priming in visual search. *Attention, Perception & Psychophysics*, *80* (6), 1362-1374.  
<https://doi.org/10.3758/s13414-018-1550-7>
- Irons, J. L., Jeon, M., & Leber, A. B. (2017). Pre-stimulus pupil dilation and the preparatory control of attention. *PLoS ONE*, *12* (12), e0188787.  
<https://doi.org/10.1371/journal.pone.0188787>
- Won, B. Y., & Leber, A. B. (2017). Spatial constraints on probability learning in visual working memory. *Visual Cognition*, *25* (1-3), 34-50.  
<https://doi.org/10.1080/13506285.2017.1346738>
- Leber, A. B., & Gwinn, R. E., Hong, Y. L., & O'Toole, R. J. (2016). Implicitly learned suppression of irrelevant spatial locations. *Psychonomic Bulletin & Review*, *23* (6), 1873-1881.  
<https://doi.org/10.3758/s13423-016-1065-y>
- Irons, J. L. & Leber, A. B. (2016). Choosing attentional control settings in a dynamically changing environment. *Attention, Perception & Psychophysics*, *78* (7), 2031-2048.  
<https://doi.org/10.3758/s13414-016-1125-4>
- Won, B. Y., & Leber, A. B. (2016). How do magnitude and frequency of monetary reward guide visual search? *Attention, Perception & Psychophysics*, *78* (5), 1221-1231.  
<https://doi.org/10.3758/s13414-016-1154-z>
- Tower-Richardi, S. M., Leber, A. B., & Golomb, J. D. (2016). Spatial priming in ecologically relevant reference frames. *Attention, Perception & Psychophysics*, *78* (1), 114-132.  
<https://doi.org/10.3758/s13414-015-1002-6>
- Moser, J. S., Moran, T. P., & Leber, A. B. (2015). Attentional search training improves attentional control and reduces state anxiety in trait anxious college students. *Behavior Therapy*, *46*, 834-843.  
<https://doi.org/10.1016/j.beth.2015.07.001>
- Gibson, B. M., Leber, A. B., Mehlman, M. L. (2015). Spatial context learning in pigeons (*Columba livia*). *Journal of Experimental Psychology: Animal Learning & Cognition*, *41* (4), 336-342.  
<https://doi.org/10.1037/xan0000068>
- Wells, E. T. & Leber, A. B. (2014). Evaluating the contribution of local and global influences on Motion-induced Blindness. *Visual Cognition*, *22* (1), 125-140.  
<https://doi.org/10.1080/13506285.2013.875500>
- Leber, A. B., Lechak, J. R., & Tower-Richardi, S. M. (2013). What do fast response times tell us about attentional control? *Journal of Vision*, *13* (3), 1-12.  
<https://doi.org/10.1167/13.3.31>

- Lamy, D., Leber, A. B., & Egeth, H. E. (2012). Selective attention. In I. B. Weiner, A. F. Healy, & R.V. Proctor (Eds.), *Handbook of Psychology. Volume 4: Experimental Psychology (2nd ed., pp. 267-294)*. New York: Wiley. ISBN: 978-0-470-64993-0
- Lechak, J. R. & Leber, A. B. (2012). Individual differences in distraction by motion predicted by neural activity in MT/V5. *Frontiers in Human Neuroscience, 6 (12)*, 1-10.  
<https://doi.org/10.3389/fnhum.2012.00012>
- Wells, E. T., Leber, A. B., & Sparrow, J. E. (2011). The role of mask coherence in motion-induced blindness. *Perception, 40 (12)*, 1503-1518.  
<https://doi.org/10.1068/p6976>
- Egeth, H. E., Leonard, C. J., & Leber, A. B. (2010). Why salience is not enough: Reflections on top-down selection in vision. *Acta Psychologica, 135*, 130-132.  
<https://doi.org/10.1016/j.actpsy.2010.05.012>
- Leber, A. B. (2010). Neural predictors of within-subject fluctuations in attentional control. *Journal of Neuroscience, 30 (34)*, 11458-11465.  
<https://doi.org/10.1523/JNEUROSCI.0809-10.2010>
- Costello, M. C., Madden, D. J., Shepler, A. M., Mitroff, S. R., & Leber, A. B. (2010). Age-related preservation of top-down control over distraction in visual search. *Experimental Aging Research, 36*, 249-272.  
<https://doi.org/10.1080/0361073X.2010.484719>
- Leber, A. B., Kawahara, J. -I., & Gabari, Y. (2009). Long-term, abstract learning of attentional set. *Journal of Experimental Psychology: Human Perception and Performance, 35 (5)*, 1385-1397.  
<https://doi.org/10.1037/a0016470>
- Leber, A. B., Turk-Browne, N. B., & Chun, M. M. (2008). Neural predictors of moment-to-moment fluctuations in cognitive flexibility. *Proceedings of the National Academy of Sciences, USA, 105 (36)*, 13592-13597.  
<https://doi.org/10.1073/pnas.0805423105>
- Folk, C. L., Leber, A. B., & Egeth, H. E. (2008). Top-down control settings and the attentional blink: Evidence for non-spatial contingent capture. *Visual Cognition, 16*, 616-642.  
<https://doi.org/10.1080/13506280601134018>
- Turk-Browne, N. B., Yi, D.-J., Leber, A. B., & Chun, M. M. (2007). Visual quality determines the direction of neural repetition effects. *Cerebral Cortex, 17 (2)*, 425-433.  
<https://doi.org/10.1093/cercor/bhj159>
- Lamy, D., Carmel, T., Egeth, H. E., & Leber, A. B. (2006). Effects of search mode and inter-trial priming on singleton search. *Perception & Psychophysics, 68 (6)*, 919-932.  
<https://doi.org/10.3758/BF03193355>
- Leber, A. B., & Egeth, H. E. (2006). Attention on autopilot: Past experience and attentional set. *Visual Cognition, 14*, 565-583.  
<https://doi.org/10.1080/13506280500193438>
- Leber, A. B. & Egeth, H. E. (2006). It's under control: Top down search strategies can override attentional capture. *Psychonomic Bulletin & Review, 13 (1)*, 132-138.  
<https://doi.org/10.3758/BF03193824>
- Serences, J., Shomstein, S., Leber, A. B., Golay, X., Egeth, H. E., & Yantis, S. (2005). Coordination of voluntary and stimulus-driven attentional control in human cortex. *Psychological Science, 16 (2)*, 114-

122.

<https://doi.org/10.1111/j.0956-7976.2005.00791.x>

Lamy, D., Leber, A., & Egeth, H. E. (2004). Effects of task relevance and stimulus-driven salience in feature search mode. *Journal of Experimental Psychology: Human Perception and Performance*, 30 (6), 1019-1031.

<https://doi.org/10.1037/0096-1523.30.6.1019>

Folk, C. L., Leber, A. B., & Egeth, H. E. (2002). Made you blink! Contingent attentional capture produces a spatial blink. *Perception & Psychophysics*, 64 (5), 741-753.

<https://doi.org/10.3758/BF03194741>

Egeth, H. E., Folk, C. L., Leber, A. B., Nakama, T., & Hendel, S. (2001). Attentional capture in the spatial and temporal domains. In C. L. Folk & B. S. Gibson (Eds.), *Advances in Psychology XXX - Attraction, Distraction, and Action: Multiple Perspectives on Attentional Capture* (pp. 93-119). Amsterdam: Elsevier Science B.V.

[https://doi.org/10.1016/S0166-4115\(01\)80007-8](https://doi.org/10.1016/S0166-4115(01)80007-8)

### **Manuscripts Under Review / Revision**

Hansen, H. A., Leber, A. B., & Saygin, Z. (under review). Exploring neural origins of misophonia using resting-state connectivity.

### **Manuscripts in Preparation**

McKinney, M. R., Hansen, H. A., Irons, J. L., & Leber, A. B. (in preparation). Attentional control strategy is not predicted by cognitive ability or academic performance.

Won, B. Y., & Leber, A. B. (in preparation). How generalizable is spatial implicit learning?

Allon, A. S. & Leber, A. B. (in preparation). Experience-driven suppression of irrelevant distractor locations is context dependent.

Pidaparthy, L., Chen, J., Leber, A. B., & Golomb, J. D. (in preparation). Feature-binding errors induced by stimulus-driven attentional capture: Exploring the effects of distractor-target temporal dynamics.

Heisterberg, L. M. & Leber, A. B. (in preparation). Contextual cueing is stunted by tasks performed during consolidation.

Heisterberg, L. M. & Leber, A. B. (in preparation). The impact of sample size, session length, and task type on the utility of connectome-based predictive models of human fMRI data.

Irons, J. L., Hansen, H. A., & Leber, A. B. (in preparation). The interaction between explicit knowledge and motivation in determining the selection of optimal attentional control strategies.

Irons, J. L., McKinney, M., & Leber, A. B. (in preparation). Reward context and the strategic control of attention.

### **Conference Proceedings**

Lechak, J. R. & Leber, A. B. (2010). Object Perception, Attention, and Memory (OPAM) 2010 Conference Report: Temporal oscillations in attention capture by moving stimuli as revealed by fMRI. *Visual Cognition*, 18 (10), 1518-1521. <https://doi.org/10.1080/13506285.2010.521658>

### **Other Publications and Manuscripts**

Leber, A. B. (2004). *On the Maintenance and Switching of Attentional Set*. Ph.D. dissertation, The Johns Hopkins University, United States – Maryland. Retrieval from ProQuest Digital Dissertations database (Publication No. AAT 3107532).

Leber, A. B. (2000). Cognitive psychology. *Imagine*, 7(5). Center For Talented Youth, Johns Hopkins University, Baltimore, MD.

Leber, A. B. (1999). *The limits of top-down influences on object-based attention*. Unpublished master's thesis.

### **Conference Presentations (past 3 years)**

Moher, J., Leber, A. B., & Nardone, O. (2021, November). The reduction in attentional capture in the presence of high-probability distractors is context dependent. Poster presented at the Annual Meeting of the Psychonomic Society. <https://www.psychonomic.org>

Li, W. Y. & Leber, A. B. (2021, November). Attentional strategy use in a combined target choice and foraging task. Poster presented at the 29<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop. <https://opam.net>

McKinney, M. R., Zhang, T., Irons, J. L., & Leber, A. B. (2021, November). Further evidence of a divergence between cognitive ability and attentional control strategy. Poster presented at the 29<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop. <https://opam.net>

Narhi-Martinez, W., Dube, B., Chen, J., Leber, A. B., & Golomb, J. D. (2021, November). Learned spatial distractor suppression reduces feature interference. Poster presented at the 29<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop. <https://opam.net>

Zhang, T., McKinney, M. R., & Leber, A. B. (2021, November). Attentional strategy and effort avoidance: The role of display enumeration. Poster presented at the 29<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop. <https://opam.net>

Khandelwal, V., McKinney, M., Li, W., Irons, J., & Leber, A. (2021, May). Strategy instruction boosts visual search optimality but such improvements transfer poorly to similar tasks. Poster presented at the Annual Meeting of the Vision Sciences Society. <https://visionsciences.org>

Li, W., McKinney, M. R., Irons, J. L., & Leber, A. B. (2021, May). Generalization of attentional control strategies across distinct tasks. Poster presented at the Annual Meeting of the Vision Sciences Society. <https://visionsciences.org>

Pidaparathi, L., Chen, J., Leber, A. B., & Golomb, J. D. (2021, May). Independent time course for feature-binding errors after attentional capture and disengagement. Poster presented at the Annual Meeting of the Vision Sciences Society. <https://visionsciences.org>

Li, W.Y., McKinney, M. R., Irons, J. L., & Leber, A. B. (2020, November). How universal is suboptimal visual search strategy? Poster presented at the 28<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop. <https://opam.net>

McKinney, M. R., Irons, J. L., & Leber, A. B. (2020, November). Motivating strategic attentional control

- with monetary reward. Poster presented at the 28<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop. <https://opam.net>
- Dube, B., Leber, A. B., & Golomb, J. D. (2020, June). Perceptual distraction disrupts control over visual memory encoding. Poster presented at the Annual Meeting of the Vision Sciences Society. <https://visionsciences.org>
- Ping, E. E. C., Heisterberg, L. M., Allon, A. S., & Leber, A. B. (2020, June). Investigating how illusory objects are represented in visual working memory. Poster presented at the Annual Meeting of the Vision Sciences Society. <https://visionsciences.org>
- Shaw, D. C., Hansen, H. A., McKinney, M. R., Irons, J. L., & Leber, A. B. (2020, June). Does task switching ability predict the selection of attentional control strategies? Poster presented at the Annual Meeting of the Vision Sciences Society. <https://visionsciences.org>
- Li, W., McKinney, M. R., Irons, J. L., & Leber, A. B. (2020, June). Exploring the generalizability of visual search strategy. Poster presented at the Annual Meeting of the Vision Sciences Society. <https://visionsciences.org>
- McKinney, M. R., Irons, J. L., & Leber, A. B. (2020, June). Monetary reward motivates the adoption of optimal attentional control strategies. Poster presented at the Annual Meeting of the Vision Sciences Society. <https://visionsciences.org>
- Allon, A. S., & Leber, A. B. (2019, November). Experience-driven suppression of irrelevant distractor locations is context dependent. Paper presented at the Annual Meeting of the Psychonomic Society, Montréal, QC.
- Heisterberg, L. M., & Leber, A. B. (2019, November). Spatial demands after target search interfere with contextual cueing. Poster presented at the 27<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop, Montréal, QC.
- McKinney, M. R., Hansen, H. A., Irons, J. L., & Leber, A. B. (2019, November). An exploration of ability and personality trait variables predicting goal-directed attention in visual search. Poster presented at the 27<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop, Montréal, QC.
- Ping, E. E. C., Heisterberg, L. M., Allon, A. S., & Leber, A. B. (2019, November). How are illusory objects represented in visual working memory? Poster presented at the 27<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop, Montréal, QC.
- Scotti, P. S., Hong, Y., Leber, A. B., & Golomb, J. D. (2019, November). Competition between similar visual working memory items underlies repulsion. Paper presented at the 27<sup>th</sup> Annual Object Perception, Attention, and Memory (OPAM) Workshop, Montréal, QC.
- Heisterberg, L. M., & Leber, A. B. (2019, July). Optimality of tool selection in radiologists and naïve subjects. Paper presented at the Medical Image Perception Society XVIII, Salt Lake City, UT.
- Scotti, P., Hong, Y., Leber, A., & Golomb, J. (2019, May). Relational interactions between visual memory representations increase with maintenance duration. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Hong, Y., Maxcey, A., & Leber, A. (2019, May). Recognition-induced forgetting of temporally related visual long-term memories. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- McKinney, M., Hansen, H., Irons, J., & Leber, A. (2019, May). An exploration of trait variables predicting the goal-directed control of visual attention. Poster presented at the Annual Meeting of the



Vision Sciences Society, St. Pete Beach, FL.

Heisterberg, L., & Leber, A. (2019, May). A secondary task stunts the development of contextual cueing. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.

### **Invited Talks**

- 2022 Jul (planned) Ludwig Maximilian University, Munich, Germany, *Experimental / Neuro-Cognitive Psychology Unit*
- 2022 Jul (planned) Handling Visual Distraction Workshop, Ammersee, Germany
- 2020 Mar Yale University, *Cognitive/Developmental Seminar, Department of Psychology*  
(canceled due to COVID-19 pandemic)
- 2018 Oct University of Toronto Mississauga, *Departmental of Psychology*
- 2017 Apr Johns Hopkins University, *Vision Seminar, Psychological & Brain Sciences*
- 2015 Jan University of Illinois, *Cognitive Area, Department of Psychology*
- 2014 Dec University of Queensland, *Centre for Perception and Cognitive Neuroscience*
- 2014 Dec The Ohio State University, *Department of Optometry*
- 2013 Dec Tel Aviv University, *Department of Psychology*
- 2013 Oct Michigan State University, *Cognitive Group, Department of Psychology*
- 2012 Jul Visual Search and Selective Attention III Workshop, Ammersee, Germany
- 2012 Jun Brown University, *Cognitive Group, Dept. of Cognitive, Linguistic & Psych. Sciences*
- 2012 May Tel Aviv University, *Department of Psychology*
- 2012 Mar Brigham & Women's Hospital, Harvard Medical School, *Visual Attention Seminar Series*
- 2011 Oct Harvard University, *Cognition Brain & Behavior Talk Series, Department of Psychology*
- 2011 Apr VA Medical Center, Boston, MA, *Neuroimaging Research Center*
- 2011 Mar Massachusetts General Hospital, *Martinos Center for Biomedical Imaging*
- 2011 Mar Dalhousie University, Halifax, NS, Canada, *Department of Psychology*
- 2010 Apr George Washington University, *Cognitive Psychology Group, Department of Psychology*
- 2009 Nov Learning and the Brain 24, Cambridge, MA  
*"Modern Minds: How the Digital Age is Changing Brains & Learning" symposium*
- 2009 Mar Eastern Psychological Association Annual Meeting, Pittsburgh, PA  
*"Where Mind Wandering Meets Cognitive Flexibility" symposium*
- 2008 Oct Brigham & Women's Hospital, Harvard Medical School, *Visual Attention Seminar Series*
- 2007 Oct International Conference on Cognition, Consciousness and Culture, Seoul, Korea
- 2007 Oct University of Kyoto, Kyoto, Japan, *Department of Psychology*
- 2007 Sep National Institute for Advanced Industrial Science & Technology, Tsukuba, Japan,  
*Cognition and Action Research Group*
- 2006 Dec Yale School of Medicine, *Magnetic Resonance Imaging Research Center*
- 2006 Dec Williams College, *Department of Psychology*
- 2006 Nov University of New Hampshire, *Department of Psychology*
- 2006 Sep Johns Hopkins University, *Vision Seminar, Department of Psych. and Brain Sciences*
- 2004 Jan Vrije Universiteit, Amsterdam, Netherlands, *Cognitive Psychology Group*

### **Organizational Affiliations**

- 2016 - Member, *Society for Experimental Psychology and Cognitive Science (APA Division 3)*
- 2010 - Member, *Society for Neuroscience*
- 2009 - Fellow, *Psychonomic Society*
- 2003 - Member, *Vision Sciences Society*
- 2006 - 2009 Associate Member, *Psychonomic Society*

## **Professional Activities**

### **Committees**

2005, 2006 Co-Organizer, Object Perception, Attention, and Memory Workshop (OPAM)  
2001 Aviation Security Scientific Information Support Team

### **Journal Editorial Boards**

2021 - Associate Editor, *Attention, Perception & Psychophysics*  
2013 - Consulting Editor, *Journal of Experimental Psychology: Human Perception & Performance*  
2012 - Consulting Editor, *Visual Cognition*  
2009 - 2014,  
2017 - 2020 Consulting Editor, *Attention, Perception & Psychophysics*  
2017 - 2019 Section Editor, Issue on Attention & Perception, *Current Opinion in Psychology*  
2015 - 2016 Guest Associate Editor, Special Issue on Attentional Control, *Attention, Perception & Psychophysics*  
2011 - 2012 Consulting Editor, *Psychological Science*

### **Grant Review Panels**

2011 - Early Career Reviewer, Center for Scientific Review (NIH)

### **Award Review Panels**

2020 APA Early Career Award

### **Ad hoc Reviewing**

#### **Journals:**

<i>Attention, Perception &amp; Psychophysics</i>	<i>Journal of Neurophysiology</i>
<i>Canadian Journal of Exp Psychology</i>	<i>Journal of Vision</i>
<i>Cerebral Cortex</i>	<i>Memory &amp; Cognition</i>
<i>Cognition</i>	<i>Neuroimage</i>
<i>Cognitive, Affective &amp; Behavioral Neurosci</i>	<i>Neuron</i>
<i>Cognitive Research: Principles &amp; Implications</i>	<i>Neuropsychologia</i>
<i>Current Directions in Psychological Science</i>	<i>Perception</i>
<i>Current Biology</i>	<i>PLoS One</i>
<i>Emotion</i>	<i>Proc Nat Acad Sci, USA</i>
<i>Human Brain Mapping</i>	<i>Psychological Science</i>
<i>Journal of Cognitive Neuroscience</i>	<i>Psychological Research</i>
<i>J Experimental Psychology: Applied</i>	<i>Psychonomic Bulletin &amp; Review</i>
<i>J Experimental Psychology: General</i>	<i>Psychophysiology</i>
<i>J Exp Psychol: Human Percept &amp; Perform</i>	<i>Quarterly Journal of Experimental Psychology</i>
<i>J Exp Psychol: Learning, Memory &amp; Cognition</i>	<i>Vision Research</i>
<i>Journal of Neuroscience</i>	<i>Visual Cognition</i>

#### **Grant Agencies:**

*Army Research Office*  
*German Research Foundation*  
*Israel Science Foundation*

*National Science Foundation*  
*Natural Sciences and Engineering Research Council of Canada*  
*Netherlands Organisation for Scientific Research*  
*US-Israel Binational Science Foundation*

## **Departmental and University Service**

### ***College and University-level***

#### **Ohio State**

2019 - Chair, Executive Committee, Center for Cognitive & Brain Sciences  
2018 - Faculty Advisor, Undergraduate Cognitive Science Club  
2017 - Member, Executive Committee, Center for Cognitive & Brain Sciences  
2019 Member, Pelotonia Postdoctoral Fellowship Review Committee  
2018 Member, Psychology Chair Search Committee  
2015 - 2019 Member, Oversight Committee for the Center for Cognitive & Behavioral Brain Imaging  
2013 Host, STEM Open House Experiential Activity

#### **University of New Hampshire**

2011 - 2012 Member, Collaborative Scholarship Review Panel  
2009 - 2012 Member, Undergraduate Research Opportunities Program Advisory Committee  
2009 - 2012 Member, Neuroscience & Behavior Organizing Committee  
2010 Faculty Evaluator, Graduate Research Conference

### ***Department-level***

#### **Ohio State**

2020 Member, Research Advisory Committee  
2019 - Member, Junior Faculty Mentoring Committees  
2017 - Member, Graduate Studies Committee  
2019 - 2020 Member, Cognitive Neuroscience Area Organizing Committee  
2018 Member, Cross-disciplinary Planning Committee  
2017 - 2018 Member, Clinical Neuroscience Faculty Search Committee  
2012 - 2017 Member, Speakers Committee  
2016 - 2017 Member, Pattern of Administration Revision Committee  
2016 Member, Chronic Brain Injury Faculty Search Committee  
2014 - 2015 Member, Social Neuroscience Faculty Search Committee

#### **University of New Hampshire**

2008 - 2012 Chair, Departmental Review Committee for Human Subjects Protection  
2008 - 2012 Director, Undergraduate Research Participation Pool  
2009 Chair, Facilities and Technology Committee

## **Mentoring**

### ***Postdoctoral Researchers:***

Seah Chang (Ph.D., Johns Hopkins University): 2021 – present  
(Jointly advised with Julie Golomb)

Ayala Allon (Ph.D., Tel Aviv University): 2018 – 2019  
Fulbright Postdoctoral Fellow, 2018 – 2019  
Zuckerman STEM Leadership Fellow, 2018 – 2019  
After CCLab: Data Scientist, AntiToxin Technologies

Jessica Irons (Ph.D., University of Queensland): 2014 – 2018

After CCLab: Behavioural Science Specialist, Australian Government

Bo-Yeong Won (Ph.D., University of Minnesota): 2014 – 2016  
After CCLab: Postdoctoral Researcher, University of California, Davis

**Graduate Students:**

Isaac Savelson Ph.D. Candidate, Psychology, OSU, starting Fall 2022

Jenny Lin Ph.D. Candidate, Psychology, OSU, 2021 – present  
(Jointly advised with Julie Golomb)

Tianyu Zhang Ph.D. Candidate, Psychology, OSU, 2020 – present

Heather Hansen Ph.D. Candidate, Psychology, OSU, 2017 – present  
(Jointly advised with Zeynep Saygin)  
Ohio State Presidential Fellowship, 2022-2023

Paul Scotti Ph.D., 2022, Psychology, OSU  
(Jointly advised with Julie Golomb)  
NSF Graduate Research Fellowship, 2019-2022  
After CCLab: Postdoctoral Scholar, Princeton University

Yoolim Hong Ph.D., 2021, Psychology, OSU

Lisa Heisterberg Ph.D., 2021, Neuroscience, OSU  
Current: Completing M.D. at Ohio State (via Medical Sci. Training Program)

Jennifer Lechak Claydon Ph.D., 2013, Psychology, UNH  
Current: Assistant Director, Training Assessment, Center for Teaching & Learning, Yale University

Erika Wells Ph.D., 2012, Psychology, UNH  
Graduate Student Teaching Award, 2012  
After CCLab: Visiting Assistant Professor, Union College  
Current: Lecturer, Boston University

**Undergraduate Thesis Students:**

Payton Messersmith B.A. expected 2022, Psychology & Public Affairs, OSU

Benjamin Dominguez B.S. expected 2022, Neuroscience & Psychology, OSU

Vaibhav Khandelwal B.S., 2021, Neuroscience & Psychology, OSU  
After CCLab; Research Assistant, University of Iowa

Walden (Yuan) Li B.S., 2020, Psychology, OSU  
Current: Research Assistant, Cognitive Control Lab, The Ohio State University

Elliot Ping B.S., 2020, Neuroscience, OSU  
After CCLab: Research Assistant, The Ohio State University  
Beginning Fall 2022: J.D. program, Yale School of Law

Dana Shaw	B.S., 2020, Neuroscience, OSU After CCLab: Ph.D. program, Neuroscience, Boston University
Lydia Kwong	B.S., 2017, Neuroscience, OSU After CCLab: M.A. program, Bioethics & Science Policy, Duke University
Rebecca Freeman	B.S., 2016, Psychology, OSU Current: M.A. program, Speech-Language Pathology, Eastern Michigan Univ.
Mark Scimone	B.S., 2013, Neuroscience & Behavior, UNH After CCLab: M.A. program, Biomedical Engineering, Brown University Ph.D. program, Biomedical Engineering, Brown University
Ryan O'Toole	B.S., 2012, Neuroscience & Behavior, UNH After CCLab: Research Assistant, Sanford Medical Center, U of South Dakota Ph.D. program, Neuroscience, Dartmouth University
Erin Kuta	B.A., 2011, Psychology, UNH After CCLab: Research Coordinator, Tufts Medical Center MPH/RD program, University of North Carolina, Chapel Hill
Sarah Tower-Richardi	B.A., 2011, Psychology, UNH Chief Class Marshal (highest GPA and credits earned, university-wide), 2011 After CCLab: Research Assistant, Tufts University Current: Senior Analyst, Anderson Robbins Research
Brendan Everett	B.A., 2010, Psychology, UNH After CCLab: M.D. program, University of Medicine & Dentistry of New Jersey Resident, University of Vermont Medical Center
Elizabeth Ollen	B.A., 2010, Psychology, UNH After CCLab: M.A. program, Graduate School of Education, Harvard University Ph.D. program, Psychology, Clark University

***Additional Lab Personnel (selected)***

Molly McKinney	Undergraduate RA and then Full-time RA / Lab Manager, 2017 - 2022 After CCLab: Research Assistant, Psychology, Texas A&M University
Rachael Gwinn	Full-time Research Assistant / Lab Manager, 2012 – 2014 After CCLab: Ph.D. program, Psychology, The Ohio State University

***Ph.D. Dissertation Committees***

Paul Scotti (OSU, 2022), Yoolim Hong (OSU, 2021), Sang Ho Lee (OSU, 2021), Jiageng Chen (OSU, 2021), Lisa Heisterberg (Mentored; OSU, 2021), Lassiter Speller (OSU, 2021), Xiaoli Zhang (OSU, 2020), Stephanie Fountain-Zaragoza (OSU, 2020), Rachael Gwinn (OSU, 2019), Daniel Berman (OSU, 2018), Jared Peterson (Kansas State University, 2018), Emanuele Rizzi (OSU, 2018), Gim Toh (OSU, 2017), Brian Siefke (OSU, 2017), Ayala Allon (Tel Aviv University, 2017), Allison O'Leary (OSU, 2017), Saebuyul Lee (OSU, 2016), James Retell (University of Queensland, 2014), Jennifer Lechak (Mentored; UNH, 2013), Erika Wells (Mentored; UNH, 2012), Joshua Dobias (UNH, 2011), Jennifer Stiegler (UNH, 2010), Lori Newman (UNH, 2009), Anne Gilman (UNH, 2009)

### ***Candidacy Examination Committees***

Elizabeth Duraney (OSU, 2022), Fiona Molloy (OSU, 2021), William Narhi-Martinez (OSU, 2021), Paul Scotti (Co-mentored; OSU, 2020), Heather Daly (OSU, 2020), Heather Hansen (Mentored; OSU, 2020), Sang Ho Lee (OSU, 2019); Marjorie Freggens (OSU, 2019), Lisa Heisterberg (Mentored; OSU, 2019), Hugo Gonzalez Villasanti (OSU, 2018), Jiageng Chen (OSU, 2018), Lassiter Speller (OSU, 2018), Yoolim Hong (Mentored; OSU, 2017), Jared Peterson (Kansas State University, 2017), Rachael Gwinn (OSU, 2017), Xiaoli Zhang (OSU, 2017), Allison O’Leary (OSU, 2016), Kevin Darby (OSU, 2016), Daniel Berman (OSU, 2016), Brian Siefke (OSU, 2016), Saebul Lee (OSU, 2015), Claire Arthur (OSU, 2014), Erinn Walsh (UNH, 2012), Jennifer Lechak (Mentored; UNH, 2012), Erika Wells (Mentored; UNH, 2011), Joshua Dobias (UNH, 2010), Anne Gilman (UNH, 2008)

### ***M.A. Thesis Committees***

Yong Min Choi (OSU), Megan Fisher (OSU), Minhee Yoo (OSU, 2021), Bingxin Song (OSU, 2021), Fiona Molly (OSU, 2020), William Narhi-Martinez (OSU, 2020), Heather Daly (OSU, 2019), Heather Hansen (OSU, 2019), Shaadee Samimy (OSU, 2019), Marjorie Freggens (OSU, 2018), James Palestro (OSU, 2017), Sang Ho Lee (OSU, 2017), Daniel Plebanek (OSU, 2017), Jiageng Chen (OSU, 2017), Rachael Gwinn (OSU, 2016), Xiaoli Zhang (OSU, 2016), Tracey Miser (OSU, 2016), Jared Peterson (Kansas State University, 2016), Stephanie Fountain-Zaragoza (OSU, 2015), Allison O’Leary (OSU, 2014), Brian Siefke (OSU, 2013), Angeline De Leon (OSU, 2013), Jennifer Lechak (Mentored; UNH, 2011), Kristina Steiner (UNH, 2011), Kristen Onos (UNH, 2010), Emily Carter (UNH, 2009),

### ***Undergraduate Thesis Committees***

Benjamin Dominguez (Mentored, OSU), Payton Messersmith (Mentored, OSU), Vaibhav Khandelwal (Mentored; OSU, 2021), Molly McCann (OSU, 2020), Walden (Yuan) Li (Mentored; OSU, 2020), Elliot Ping (Mentored; OSU, 2020), Dana Shaw (Mentored; OSU, 2020), Emily Spinelli (OSU, 2020), Lydia Kwong (Mentored; OSU, 2017), Rebecca Freeman (Mentored; OSU, 2016), Allison Londeree (OSU, 2015), Joseph Pochiro (OSU, 2013)

### ***Undergraduate Fellowships and Awards***

2021	Benjamin Dominquez	OSU Undergraduate Research Scholarship
2021	Vaibhav Khandelwal	OSU CogFest Undergraduate Poster Session, 1 <sup>st</sup> Place
2020	Dana Shaw	OSU CogFest Undergraduate Poster Session, 1 <sup>st</sup> Place
2019	Walden Li	OSU Undergraduate Research Scholarship
2019	Elliot Ping	OSU Undergraduate Research Scholarship
2017	Zhaojie (Zoe) Zhang	OSU Edward M. Alkire Research Award
2016	Rebecca Freeman	OSU Psychology Undergraduate Research Colloquium, 1 <sup>st</sup> Place
2015	Beau Snoad	OSU Research Scholar Award
2015	Rebecca Freeman	OSU Research Scholar Award
2014	Samuel Henry	OSU Undergraduate Education Summer Research Fellowship
2012	Mark Scimone	UNH Summer Undergraduate Research Fellowship
2010	Sarah Tower-Richardi	UNH George M. Haselrud Award for Most Outstanding Junior Psychology Major
2010	Sarah Tower-Richardi	UNH Summer Undergraduate Research Fellowship
2010	Elizabeth Weber	Best Research Award, New Hampshire Psychological Association Student Convention
2009	Brendan Everett	UNH Summer Undergraduate Research Fellowship

### **Teaching Experience**

#### ***Instructor:***

Ohio State University:

Cognitive Neuroscience: *Fall, 2012 – present*

Advanced Graduate Seminars:

Attention in 2020: How will we define it and how will we study it? *Spring 2018*

Attention: The State of the Art: *Spring 2017*

Experience-Driven Attention: *Spring 2016*

Neural Mechanisms of Attention: *Spring 2014*

University of New Hampshire:

Advanced Graduate Seminar in Cognition: *Fall 2008; Spring 2012*

Advanced Topics: Cognitive Neuroscience: *Spring 2010 – Fall 2011*

Cognitive Psychology: *Fall, 2009 – Fall 2011*

Research Methods in Psychology: *Spring 2008 – Spring 2011*

Johns Hopkins University:

Laboratory in the Analysis of Psychological Data: *Spring 2000; Spring 2001*

**Teaching Assistant:**

Johns Hopkins University

Advanced Statistical Methods: *Fall, 2002*

Introduction to Personality Theory: *Spring, 2002*

Theory and Methods in Clinical Psychology: *Fall, 2001*

Issues in Counseling and Mental Health: *Fall, 2000; Spring, 2003*

Social Psychology: *Fall, 1999*

Sleep, Dreams, and Altered States of Consciousness: *Spring, 1999*

Cross-cultural Psychology: *Fall, 1998*