Talia Konkle

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Cambridge, MA 02138

Academic Appointments and Education

Assistant Professor
Department of Psychology & Center for Brain Science, Harvard University *July 2015-*

Postdoctoral Fellow
Department of Psychology, Harvard University *2012 - 2015*
Center for Mind/Brain Sciences, University of Trento, Italy *2011 - 2012*
Supervisor: Professor Alfonso Caramazza

Ph.D. Brain and Cognitive Sciences
Massachusetts Institute of Technology *2005 - 2011*
Advisor: Professor Aude Oliva

B.A. Applied Mathematics with Computer Science, B.A. Cognitive Science
University of California – Berkeley *2000 - 2004*
Advisor: Professor Richard Ivry

Research and Scholarship

Preprints

[1] **Konkle, T.** (2021). Emergent organization of multiple visuotopic maps without a feature hierarchy. *BioRxiv.*

[2] Conwell, C., Prince, J., Alvarez, G., & **Konkle, T**. (2021) What can 5.17 billion regression fits tell us about artificial models of the human visual system? *Shared Visual Representation between Humans and Machines workshop, NeurIPS.*

[3] Janini, D., Hamblin, C., Deza, A., & **Konkle, T**. (2021). General object-based features account for letter perception better than specialized letter features. *BioRxiv.*

[4] Wang, R., Janini, D., & **Konkle,** T. (2022). Mid-level feature differences underlie early animacy and object size distinctions: Evidence from EEG decoding. *BioRxiv.*

[5] Josephs, E. Hebart, M., & **Konkle, T**. (2021). Dimensions underlying human understanding of the reachable world. *PsyArXiv.*

[6] Park, J., Josephs, E., & **Konkle, T**. (2021). Systematic transition from boundary extension to contraction along an object-to-scene continuum. *PsyRxiv*

[7] Park, J., Josephs, E., & **Konkle, T**. (2022). Ramp-shaped neural tuning supports graded population-level representation of the object-to-scene continuum. *PsyRxiv.*

[8] Chen, Y-C., Deza, A., & **Konkle, T.** (2021). How big should this object be? Perceptual influences on viewing-size preferences. *BioRxiv.*

[9] Deza, A. & **Konkle, T**., (2020). Emergent Properties of Foveated Perceptual Systems. *arXiv.*

Publications

[10] **Konkle, T**. & Alvarez, G. A. (*in press*). A self-supervised domain-general learning framework for human ventral stream representation. *Nature Communications.*

[11] Tarhan, L., De Freitas, J., & **Konkle, T**. (2021). Behavioral and Neural Representations en route to Intuitive Action Understanding. *Neuropsychologia.*

[12] Josephs, E., Zhao, H., & **Konkle, T**. (2021). The world within reach: an image database of reach-relevant environments. *Journal of Vision.*

[13] Magri, C., **Konkle, T**., & Caramazza, A. (2021). The contribution of object size, manipulability, and stability on neural responses to inanimate objects. *NeuroImage, 237*, 118098.

[14] Josephs, E. L., & **Konkle, T**. (2020). Large-scale dissociations between views of objects, scenes, and reachable-scale environments in visual cortex. *Proceedings of the National Academy of Sciences, 117*(47), 29354-29362.

[15] Tarhan, L. & **Konkle, T**. (2020). Sociality and Interaction Envelope Organize Visual Action Representation. *Nature Communications, 11*(1), 1-11.

[16] Tarhan, L. & **Konkle, T**. (2020). Reliability-based Voxel Selection. *Neuroimage.* 207 (2020): 116350.

[17] Long, B., Moher, M., Carey, S., & **Konkle, T**. (2019). Animacy and object size are reflected in perceptual similarity computations by the preschool years**.** *Visual Cognition.* 27(5-8), 435-451.

[18] Janini, D. & **Konkle, T**. (2019). A Pokémon-sized window into the human brain. *Nature Human Behavior.* (Commentary). 3(6):552-553.å

[19] Josephs, E. & **Konkle, T**. (2019). Perceptual dissociations among views of objects, scenes, and reachable spaces. *Journal of Experimental Psychology: Human Perception & Performance.* 45(6):715-728.

[20] Long, B. Yu, Moher, M., Carey, S. & **Konkle, T**. (2019). Real-world size is automatically encoded in preschoolers' object representations. *Journal of Experimental Psychology: Human Perception & Performance. 45(7):863-876.*

[21] Long, B. Yu, C-P., & **Konkle, T**. (2018). Mid-level visual features underlie the high-level categorical organization in the ventral stream. *Proceedings of the National Academy of Sciences, USA.* 115(38), E9015-E9024.

[22] Long, B. & **Konkle, T**. (2017). A familiar-size Stroop Effect in the absence of basic-level recognition. *Cognition. 168*, 234-242.

[23] Cohen, M., Alvarez, G. A., Nakayama, K., & **Konkle, T**. (2017). Visual search for object categories is predicted by the representational architecture of high-level visual cortex. *Journal of Neurophysiology. 117* (1), 388-402.

[24] **Konkle, T**., & Caramazza, A. (2016). The large-scale organization of object-responsive cortex is reflected in resting-state network architecture. *Cerebral Cortex.* 1-13.

[25] Long, B., **Konkle, T**., Cohen, M., & Alvarez, G. A. (2016). Mid-level perceptual features distinguish objects of different real-world sizes. *Journal of Experimental Psychology: General. 154* (1), 95-109.

[26] Cohen, M., **Konkle, T**., Nakayama, K., & Alvarez, G. A. (2015). Visual awareness is constrained by the representational architecture of the visual system. *Journal of Cognitive Neuroscience. 27* (11), 2240-52.

[27] Park*, S. J., **Konkle*, T**., & Oliva, A. (2015). Parametric Coding of the Size and Clutter of Natural Scenes in the Human Brain. *Cerebral Cortex.* 25(7):1792-805.

[28] Cohen, M., **Konkle, T**., Rhee, J., Nakayama, K., & Alvarez, G. A. (2014). Processing multiple visual objects is limited by overlap in neural channels. *Proceedings of the National Academy of Sciences.*

[29] **Konkle, T**., & Caramazza, A. (2013). Tripartite Organization of Object Responses by Animacy and Real-World Size. *Journal of Neuroscience, 33* (25), 10235-42.

[30] Brady, T. F., **Konkle, T**., Gill, J., Oliva, A., & Alvarez, G. A. (2013). Long-term memory has the same limit on fidelity as working memory. *Psychological Science*, 24 (6), 981-990.

[31] Brady, T. F., **Konkle, T**., Alvarez, G. A., & Oliva, A. (2013). Real-world objects are not represented as bound units: Independent forgetting of different object details from visual memory. *Journal of Experimental Psychology: General*, 142(3), 791-808.

[32] **Konkle. T**., & Oliva, A. *(2012).* A real-world size organization of object responses in occipito-temporal cortex. *Neuron.* 74(6), 1114-24.

[33] **Konkle, T**., & Oliva, A. *(2012).* A Familiar Size Stroop Effect: Real-world size is an automatic property of object representation. *Journal of Experimental Psychology: Human Perception & Performance*, 38, 561-9.

[34] **Konkle, T**. & Oliva, A. (2011). Canonical visual size for real-world objects. *Journal of Experimental Psychology: Human Perception and Performance.* 37(1):23-37.

[35] Brady, T. F., **Konkle, T**. & Alvarez, G. A. (2011). A review of visual memory capacity: Beyond individual items and toward structured representations. *Journal of Vision.* 11(5):4, 1-4.

[36] **Konkle, T**., Brady, T. F., Alvarez, G. A., & Oliva, A. (2010). Scene memory is more detailed than you think: the role of scene categories in visual long-term memory. *Psychological Science, 21*(11), 1551-1556.

[37] **Konkle, T**., Brady, T. F., Alvarez, G. A., & Oliva, A. (2010). Conceptual distinctiveness supports detailed visual long-term memory. *Journal of Experimental Psychology: General.* 139(3), 558-578.

[38] Bedny, M., **Konkle, T**., Pelphrey, K., Saxe, R., & Pascual-Leone, A. (2010). Sensitive period for a vision-dominated response in human MT/MST. *Current Biology, 20*(21),1900-6.

[39] Oliva, A., Park, S., & **Konkle, T**. (2010). Representing, Perceiving and Remembering the Shape of Visual Space. Computational Vision in Neural and Machine Systems. Cambridge University Press, edited by Laurence R Harris and Michael Jenkin.

[40] Brady, T. F., **Konkle, T**., & Alvarez, G. A. (2009). Compression in visual short-term memory: using statistical regularities to form more efficient memory representations. *Journal of Experimental Psychology: General. 138*(4), 487-502.

[41] **Konkle, T**. & Moore, C. I. (2009). What can crossmodal aftereffects reveal about neural representation and dynamics? *Communicative and Integrative Biology, 2*(6), 479-481.

[42] **Konkle, T**., Wang, Q., Hayward, V., & Moore, C. I. (2009). Motion Aftereffects Transfer Between Touch and Vision. *Current Biology, 19*, 745-750.

[43] Brady, T. F., **Konkle, T**., Oliva, A., & Alvarez, G. (2009). Detecting changes in real-world objects: The relationship between visual long-term memory and change blindness. *Communicative and Integrative Biology* 2:1, 1-3.

[44] Brady, T. F., **Konkle, T**., Alvarez, G. A. & Oliva, A. (2008). Visual long-term memory has a massive storage capacity for object details. *Proceedings of the National Academy of Sciences USA.* 105(38), 14325-9.

[45] Carter, O. L., **Konkle, T**., Wang, Q., Hayward, V., & Moore, C. I. (2008). Tactile Rivalry Demonstrated with an Ambiguous Apparent-Motion Quartet. *Current Biology*, 18(14), 1050-4.

[46] **Konkle, T.,** & Oliva, A. (2007). Normative representation of objects: Evidence for an ecological bias in perception and memory. In D. S. McNamara & J. G. Trafton (Eds.), *Proceedings of the 29th Annual Cognitive Science Society*, (pp. 407-413), Austin, TX: Cognitive Science Society.

[47] Alvarez, G. A., **Konkle, T**., & Oliva, A. (2007). Searching in Dynamic Displays: Effects of configural predictability and spatio-temporal continuity. *Journal of Vision*, 7(14):12, 1-12.

[48] Verstynen, T. D., Spencer, R., Stinear, C. M., **Konkle, T**., Diedrichsen, J., Byblow, W. D., Ivry, R. B. (2007). Bilateral Pathways Do Not Predict Mirror Movements: A Case Report. *Neuropsychologia*, *45*(4), 844-852.

[49] Verstynen, T. D., **Konkle, T**., & Ivry, R. B. (2006). Two types of TMS-induced Movement Variability After Stimulation of the Primary Motor Cortex. *Journal of Neurophysiology. 96*, 1018-1029.

Conference Presentations (past 3 years)

2022

[1] Khona, M., Chandra, S., Konkle, T., and Fiete, I. R. (2022). Modeling the formation of the visual hierarchy. Poster accepted at the *COSYNE Meeting*, February 23-26.

2021

[2] Obeid, D. & Konkle, T. (2021). Wiring minimization of deep neural networks reveal conditions in which multiple visuotopic areas emerge. Talk presented at the *Virtual Vision Sciences Society*, May 21-26.

[3] Doshi, F. & Konkle, T. (2021). Organizational motifs of cortical responses to objects emerge in topographic projections of deep neural networks. Talk presented at the *Virtual Vision Sciences Society*, May 21-26.

[4] Kramer, L., Konkle, T., & Cohen, M. (2021). Contributions of the early visual system to high-level visual distinctions. Poster presented at the *Virtual Vision Sciences Society*, May 21-26.

[5] Josephs, E., Hebart, M., & Konkle, T. (2021). Emergent dimensions underlying human perception of the reachable world. Poster presented at the *Virtual Vision Sciences Society*, May 21-26.

[6] Janini, D. & Konkle, T. (2021). Representational structure for letters is found throughout ventral visual cortex and matches human perception. Poster presented at the *Virtual Vision Sciences Society*, May 21-26.

[7] Park., J., Josephs, E., & Konkle, T. (2021). Systematic transition from boundary extension to contraction along an object-scene continuum. Poster presented at the *Virtual Vision Sciences Society*, May 21-26.

[8] Obeid, D., Konkle, T., (2021). Wiring minimization of deep neural networks reveal conditions in which multiple visuotopic areas emerge. Poster presented at the *Online COSYNE Meeting*, February 23-26.

[9] Conwell, C., Prince, J., Alvarez, G., & Konkle, T. (2021). What can 5.17 billion regression fits tell us about artificial models of the human visual system? *Shared Visual Representations between Humans and Machines.* Workshop at NeurIPS. December 13. *V*irtual.

2020

[10] Konkle, T. (2020). Emergence of multiple visual areas without a feature hierarchy. Talk presented at the 1st annual conference *From Neuroscience to Artificially Intelligent Systems* (NaiSys), Cold Spring Harbor (virtual), November, 2020.

[11] Deza, A., Konkle, T., (2020). Foveation induces Robustness to Scene Occlusion in Deep Neural Networks. Poster presented at the *Virtual Vision Sciences Society*, June 19-24.

[12] Kallmayer, A., Prince, J., Konkle, T., (2020). Comparing representations that support object, scene, and face recognition using deepnet trajectory analysis. Poster presented at the *Virtual Vision Sciences Society*, June 19-24.

[13] Magri, C., Konkle, T. (2020). Object-selective cortex shows distinct representational formats along the posterior-to-anterior axis: evidence from brain-behavior correlations. Talk presented at the *Virtual Vision Sciences Society*, June 19-24..

[14] Janini, D., Konkle, T. (2020). Approximate number representations emerge in object-trained convolutional neural networks and show human-like signatures of number discrimination. Poster presented at the *Virtual Vision Sciences Society*, June 19-24..

[15] Josephs, E. Zhao, H., Konkle, T. (2020). Building the "Reachspace Database": a large-scale stimulus set of reachable environments. Poster presented at the *Virtual Vision Sciences Society*, June 19-24.

[16] *Alvarez, G. A., Konkle, T. (2020). Integrating border-ownership computations into deep neural networks yields better fits to early visual cortex. Poster was to be presented at 20th annual meeting of the *Vision Sciences Society*, May 15-20, St. Pete Beach, FL.

[17] Prince, J., Konkle, T. (2020). Computational evidence for integrated rather than specialized feature tuning in category-selective regions. Talk presented at the *Virtual Vision Sciences Society*, June 19-24.

[18] Park., J., Josephs, E., Konkle, T. (2020). Neural representation of the visual environment along the continuum from objects to scenes. Poster presented at the *Virtual Vision Sciences Society*, June 19-24.

[19] Tarhan., L., De Freitas, J., Alvarez, G. A., Konkle, T. (2020). Action similarity judgments are well-predicted with semantic embeddings of verbal descriptions. Poster presented at the *Virtual Vision Sciences Society*, June 19-24.

[20] Wang., R., Janini, D., Kallmayer, A., Konkle, T. (2020). Mid-level feature differences support early EEG-decoding of animacy and object size distinctions. Poster presented at the *Virtual Vision Sciences Society*, June 19-24.

[21] Konkle, T., Alvarez, G. A. (2020). Deepnets do not need category supervision to predict visual system responses to objects. Poster presented at the *Virtual Vision Sciences Society*, June 19-24.

[22] Chen, Y-C., Deza, A., Konkle, T. (2020). How big should this object be? Perceptual influences on viewing-size preferences. Poster presented at the *Virtual Vision Sciences Society*, June 19-24

[23] Chen, Y-C., Deza, A., Konkle, T. (2020). How big should this object be? Perceptual influences on viewing-size preferences. Poster presented at the *Visual Properties Driving Visual Preferences* Virtual Workshop, June 12.

2019

[24] Janini, D., Konkle, T., (2019). Shape features learned for object classification can predict behavioral discrimination of written symbols. Poster presented at 19th annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

[25] Prince, J., Konkle, T. (2019). Relating category-selective regions in biological and artificial neural networks. Poster presented at 19th annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

[26] Park, J., Josphes, E., Konkle, T. (2019). Reachable or Not? Perceptual judgments of reachability along the object-scene continuum. Poster presented at 19th annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

[27] Josephs, E., Konkle, T. (2019). Large-scale neural dissociations between views of objects, scenes, and reachable spaces. Poster presented at 19th annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

[28] Magri, C., Long, B., Chiou, R., Konkle, T. (2019). Behavioral and Neural Associations between Object Size and Curvature. Poster presented at 19th annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

[29] Tarhan, L., Konkle, T. (2019). Reliability-Based Voxel Selection for Condition-Rich Designs. Talk presented at 19th annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

[30] Maltseva, M., Quinlan, D, Stubbs, K., Konkle, T., Culham, J.C. (2019). Which aspects of size and distance for real objects are coded through the hierarchy of visual areas?. Talk presented at 19th annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

[31] Konkle, T. (2019). Emergence of Multiple Retinotopic Maps Without a Feature Hierarchy. Talk to be presented at 19th annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

[32] Deza, A., Chen, Y-C., Long, B., & Konkle, T. (2019). Accelerated Texforms: Alternative Methods for Generating Unrecognizable Object Images with Preserved Mid-Level Features. Poster to be presented at the 3rd annual *Computational Cognitive Neuroscience* conference, Berlin, Germany.

[33] Magri, C. & Konkle, T. (2019). Comparing facets of behavioral object representation: implicit perceptual similarity matches brains and models. Poster to be presented at the 3rd annual *Computational Cognitive Neuroscience* conference, Berlin, Germany.

[34] Maltseva, M., Quinlan, D. J., Stubbs, K. M., Konkle, T. A., Culham, J. C. (2019) Which aspects of size and distance for real objects are coded through the hierarchy of visual areas? Canadian Action and Perception-Network Symposium at the Canadian Association for Neuroscience (CAP-net at CAN-ACN), Toronto, ON.

[35] Maltseva, M., Quinlan, D. J., Stubbs, K. M., Konkle, T. A., Culham, J. C. (2019) Real-world physical distance drives human fMRI activation throughout the visual hierarchy. Society for Neuroscience (SfN), Chicago, IL.

Invited Talks

Princeton University	*2022 March*
Stanford University	*2022 January*
Columbia University	*2021 Dec*
Dartmouth University	*2021 Nov*
New York University	*2021 Oct*
Max Planck Institute for Human Cognitive and Brain Sciences, Virtual	*2021 Oct*
Computational Cognitive Neuroscience Conference, Virtual	*2021 Sept*
National Science Foundation, Virtual	*2021 July*
Cognitive Neuroscience Society Symposium, Virtual	*2021 March*
**Science of Intelligence Distinguished Lecture Series, Berlin, Germany*	*2020 Dec - cancelled*
**Neurobiology of Cognition, Gordon Research Conference, Discussion Leader*	*2020 July - cancelled*
**MGH/Martinos Center, Brainmap Seminar, Cambridge, MA*	*2020 May - cancelled*
**Concepts, Actions, and Objects Conference, Rovereto, Italy*	*2020 May - cancelled*
**Cognition, AI, and Society: Status and Perspectives Workshop, Boston College*	*2020 April - cancelled*
**Cognitive Neuroscience Society Symposium, Boston*	*2020 March - cancelled*
**Janelia Research Farms*	*2020 March - cancelled*
University of California, Berkeley	*2020 January*
University of California, Davis	*2020 January*
Shared Visual Representations in Human and Machine Intelligence, NeurIPS	*2019 December*
Johns Hopkins University	*2019 November*
Harvard University	*2019 November*
Cognitive Computational Neuroscience Conference, Berlin, Germany	*2019 September*
The Algonauts Workshop: Explaining the Human Visual Brain, MIT	*2019 July*
International Neuropsychological Symposium, Vietri Sul Mar, Italy	*2019 June*
Arthur M. Sackler Colloquium of the National Academy of Sciences	*2019 May*
Mathematical Biology Workshop, Harvard University	*2019 April*
University of Massachusetts, Amherst	*2019 March*
University of Reno	*2019 March*
Tufts University	*2018 December*
Columbia University	*2018 October*
Harvard Brain Initiative: Bridging Data and Theory Symposium	*2018 October*
Cognitive Computational Neuroscience Cross-collaborative Breakout session	*2018 September*
Visual Search and Selective Attention Conference, Munich, Germany	*2018 July*
Columbia University	*2018 March*

Harvard Brain Initiative: Mind, Brain, Behavior Neuroscience Symposium	*2018 March*
University of Pennsylvania	*2018 March*
Yale University	*2018 February*
Boston University	*2017 October*
Stony Brook University	*2016 July*
University of Western Ontario, Canada	*2016 March*
University of Cambridge, UK	*2015 July*
Johns Hopkins University	*2015 Feb*
Stanford University	*2015 Jan*
Harvard University – Visual Attention Lab Seminar	*2014 Oct*
NeuroCog Collective Conference on Levels of Analysis, Australia	*2014 June*
Harvard University	*2014 March*
Harvard University - Cognition Brain & Behavior Seminar Series	*2012 March*
NeuroCog Collective Conference on Representation, Costa Rica	*2012 Jan*
Harvard University - Graphics, Vision, and Interaction Seminar	*2009 March*
University of Liege, Belgium	*2008 Aug*

Awards

Vision Sciences Society, Young Investigator Award	*2019*
APS Rising Star Award	*2017*
JEP:General Division 3 New Investigator Award	*2013*
Walle Nauta Award for Continuing Dedication to Teaching	*2010*
Singleton Presidential Scholar, MIT	*2005 - 2009*
Angus MacDonald Award for Excellence in Undergraduate Teaching	*2008*
Cognitive Science Departmental Citation, University of California Berkeley	*2004*

Grants

NSF CAREER: The Tuning and Topography of the Ventral Visual Stream	*2020-2025*
NIH R21: Cognitive and Neural Representations of Reachable Environments	*2020-2022*
Foundations of Human Behavior Grant ($40,000)	*2020-2022*
Amazon Web Services Cloud Credits (Co-PI, $35,000)	*2020*
Harvard Brain Science Initiative Collaborative Seed Grant (Co-PI, $69,350)	*2018-2019*
MBB Faculty Research Award ($15,000)	*2016*
Star Family Challenge Grant ($100,000)	*2016*
Ruth L. Kirschstein Post-doctoral National Research Service Award	*2013 - 2016*
National Defense Science and Engineering Graduate Fellowship	*2006 - 2009*
National Science Foundation Graduate Research Fellowship	*2006 - 2010*

Teaching

Essentials of fMRI for Cognitive Neuroscientists (Harvard, Psych 1309)	*2018, 2019, 2020, 2021*
Brain Science for Citizen Leaders (Harvard, Psych 1301)	*2016, 2019*
Current Topics in Vision and Sensory Processes (Harvard, Psych 3360)	*Fall 2015-current*
Lab on Cognitive and Neural Organization (Harvard, Psych 2355)	*Fall 2015-current*
Classics in Visual Neuroscience (Harvard, NB311qc) - Lecturer	*Fall 2019*

Advising

Graduate Students

Jacob Prince	*2021-*
Fenil Doshi	*2021-*
Daniel Janini	*2016-*
Emilie Josephs	*2015 - 2021*

Leyla Tarhan	*2015 - 2021*
Caterina Magri	*2017 - 2019*
Bria Long	*2015 - 2017*

Post-doctoral Fellows

Jeongho Park	*2018-*
Ruosi Wang	*2019 - 2021*
Arturo Deza	*2019 - 2020*
Rocco Chiou	*2017 - 2018*
Chen Ping Yu	*2016 - 2017*
Xiuye Chen	*2016 - 2017*

Masters and Ph.D. Thesis Committees – Psychology, Harvard

Josh Cetron	*expected Spring 2023*
Ruben Van Genutgten	*expected Spring 2022*
Lauren DiNicola	*expected Spring 2022*
Colin Conwell	*expected Spring 2022*
John Mark Taylor	*May 2021*
Caterina Magri	*September 2019*
Roger Strong	*May 2019*
Ruosi Wang	*Fall 2018*
Mark Thornton	*Spring 2017*

Masters and Ph.D. Thesis Committees – External

Oliva Bockler	Neuroscience, Washington University School of Medicine	*expected Spring 2023*
Dana Boeginger	Speech and Hearing Bioscience and Technology, Harvard	*September 2021*
Hojin Jang	Psychology, Vanderbilt University	*August 2021*
Xihan Zhang	Computational Biology and Quantitative Genetics, Harvard	*May 2019*
Thomas Hagen	Psychology, Oslo University	*May 2019*
Chen Ping Yu	Computer Science, Stony Brook University	*Summer 2016*
Alex Walther	Cognitive Neuroscience, Cambridge University	*Summer 2015*

Service

Formal Mentoring, Outreach, and Activities

Organizer of Mentorship Outreach initiatives at the Trends in Psychology Summit
Harvard Women in Psychology Group *Nov 2021*

Speaker: National Science Foundation Symposium on AI and Neuroscience
"Convergence of New Insights from AI and Neuroscience in Understanding Visual Perception and the Brain" *June 2021*

Contributor: Generative vs. Discriminative models of high-level vision
Cognitive Computational Neuroscience – Generative Adversarial Collaboration *Fall 2021*

Panelist: Generative Models and the Brain
Center for Brains, Minds, & Machines, MIT *May 2021*

Mentor for the Harvard Graduate Women in Stem (HGWISE) program *Fall 2020, Spring 2021*

Meet the Speakers Mentoring Session
NaiSys Meeting *November 2020*

Mentor for the Females of Vision et al, (FoVea) networking program
Vision Sciences Society *May 2020*

Meet the Professors Participant
Vision Sciences Society *May 2020*

Co-Designed and Co-Implemented Website for Vision Sciences Society Conference
Vision Sciences Society *May 2020*

"Peer-networking for Students and Postdocs"
Co-organizer, Vision Sciences Society Workshop *May 2019, May 2020**

'Mathematical Biosciences Workshop, Harvard University
Co-organizer, "Invariance and Geometry in Sensation, Action and Cognition" *April 2019*

How to be a Successful Post-Doc, Harvard University *June 2018*
Panel member, on how to approach a post-doc and the job market

Center for Brains, Minds and Machines Panelist Discussion, MIT *October 2017*
Panel member, discussing "Deep networks, the brain and AI"

Women In Neuroscience Group Meeting, University of Western Ontario *July 2016*
Met with a group of graduate students to discuss being a woman in this profession.

NSF Center for Brains, Minds and Machines (CBMM) Summer Seminar Series *July 2015*
Presented a lecture in this talk series, whose aim is to attract women and minorities into the field of brain science and the study of intelligence.

"Taking the next steps as a woman in neuroscience" Panelist *March 2015*
Organized by the Women in Neuroscience committee, Harvard University

Co-Organizer of the Prehistory of the Brain Collective *2013-2014*
Sponsored by the Mind, Brain, & Behavior Initiative, Harvard University

Department Committees

Diversity, Inclusion, & Belonging Committee (Co-Chair in 2020)
Psychology Department, Harvard *2020-current*

Committee on the Needs of Graduate Students of Color
and Female Graduate Students, Division of Social Sciences, Harvard *2020*

Mind, Brain, and Behavior Head Tutor, Psychology, Harvard *2018-current*

Faculty of Arts and Sciences Standing Committee on Mind, Brain, and Behavior *2018-current*

Restricted Funds Committee, Psychology, Harvard University *2019*

Cognition, Brain, & Behavior Seminar Organizer, Harvard *2016-2017*

Harvard Psychology Departmental Colloquium Committee *2015-2017*

Faculty Interest Group on Representation, Organizing Committee, Harvard *2013-2014*

Cognitive Job Search Committee, Massachusetts Institute of Technology *2009-2010*

Chair of Interview Weekend Committee, Massachusetts Institute of Technology *2007-2009*

Interview Weekend Committee member, Massachusetts Institute of Technology *2006-2007*

Peer Review

Grant Review Panels

Collaborative Research in Computational Neuroscience (CRCNS), NSF 2020
Integrative Strategies for Understanding Neural and Cognitive Systems (NCS) 2021

Ad Hoc Reviewer – Annual Conferences:

Vision Sciences Society
Cognitive Computational Neuroscience Conference

Ad Hoc Reviewer – Cognitive Neuroscience & Computational Neuroscience

Cerebral Cortex
Communications Biology
Cortex
eLife
Human Brain Mapping
Journal of Cognitive Neuroscience
Journal of Neuroscience
Journal of Neurophysiology
Nature
Nature Communications
Nature Communications Biology
Nature Neuroscience
Neuron
NeuroImage
Neuropsychologia
Proceedings of the National Academy of Sciences, USA

Ad Hoc Reviewer – Psychology:

Attention, Perception, & Psychophysics
Cognition
Cognitive Science Society
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Human Perception and Performance
Journal of Experimental Psychology: Learning, Memory, and Cognition
Journal of Vision
Memory & Cognition
Perception
Psychological Science
Psychonomic Bulletin & Review
PlosOne
Nature Human Behavior
Trends in Cognitive Sciences
Visual Cognition