

# Talia Konkle

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## 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.** & Alvarez, G. A. (2021). A self-supervised domain-general learning framework for human ventral stream representation. *BioRxiv*.
- [2] **Konkle, T.** (2021). Emergent organization of multiple visuotopic maps without a feature hierarchy. *BioRxiv*.
- [3] 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*.
- [4] Josephs, E. Hebart, M., & **Konkle, T.** (2021). Dimensions underlying human understanding of the reachable world. *PsyArXiv*.
- [5] Janini, D., Hamblin, C., Deza, A., & **Konkle, T.** (2021). General object-based features account for letter perception better than specialized letter features. *BioRxiv*.
- [6] Park, J., Josephs, E., & **Konkle, T.** (2021). Systematic transition from boundary extension to contraction along an object-to-scene continuum. *PsyRxiv*.
- [7] Chen, Y-C., Deza, A., & **Konkle, T.** (2021). How big should this object be? Perceptual influences on viewing-size preferences. *BioRxiv*.
- [8] Deza, A. & **Konkle, T.**, (2020). Emergent Properties of Foveated Perceptual Systems. *arXiv*.

*Publications*

- [9] Tarhan, L., De Freitas, J., & **Konkle, T.** (2021). Behavioral and Neural Representations en route to Intuitive Action Understanding. *Neuropsychologia*.
- [10] Josephs, E., Zhao, H., & **Konkle, T.** (2021). The world within reach: an image database of reach-relevant environments. *Journal of Vision*.
- [11] Magri, C., **Konkle, T.**, & Caramazza, A. (2021). The contribution of object size, manipulability, and stability on neural responses to inanimate objects. *NeuroImage*, 237, 118098.
- [12] 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.
- [13] Tarhan, L. & **Konkle, T.** (2020). Sociality and Interaction Envelope Organize Visual Action Representation. *Nature Communications*, 11(1), 1–11.
- [14] Tarhan, L. & **Konkle, T.** (2020). Reliability-based Voxel Selection. *Neuroimage*. 207 (2020): 116350.
- [15] 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.
- [16] Janini, D. & **Konkle, T.** (2019). A Pokémon-sized window into the human brain. *Nature Human Behavior*. (Commentary). 3(6):552–553.
- [17] 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.
- [18] 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.
- [19] 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.
- [20] Long, B. & **Konkle, T.** (2017). A familiar-size Stroop Effect in the absence of basic-level recognition. *Cognition*. 168, 234–242.
- [21] 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.
- [22] **Konkle, T.**, & Caramazza, A. (2016). The large-scale organization of object-responsive cortex is reflected in resting-state network architecture. *Cerebral Cortex*. 1–13.
- [23] 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.
- [24] 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.

- [25] 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.
- [26] 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*.
- [27] **Konkle**, T., & Caramazza, A. (2013). Tripartite Organization of Object Responses by Animacy and Real-World Size. *Journal of Neuroscience*, 33 (25), 10235-42.
- [28] 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.
- [29] 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.
- [30] **Konkle**, T., & Oliva, A. (2012). A real-world size organization of object responses in occipito-temporal cortex. *Neuron*, 74(6), 1114-24.
- [31] **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.
- [32] **Konkle**, T. & Oliva, A. (2011). Canonical visual size for real-world objects. *Journal of Experimental Psychology: Human Perception and Performance*. 37(1):23-37.
- [33] 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.
- [34] **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.
- [35] **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.
- [36] 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.
- [37] 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.
- [38] 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.
- [39] **Konkle**, T. & Moore, C. I. (2009). What can crossmodal aftereffects reveal about neural representation and dynamics? *Communicative and Integrative Biology*, 2(6), 479-481.
- [40] **Konkle**, T., Wang, Q., Hayward, V., & Moore, C. I. (2009). Motion Aftereffects Transfer Between Touch and Vision. *Current Biology*, 19, 745-750.
- [41] 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.

- [42] 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.
- [43] 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.
- [44] **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 29<sup>th</sup> Annual Cognitive Science Society*, (pp. 407–413), Austin, TX: Cognitive Science Society.
- [45] 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.
- [46] 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.
- [47] 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)*

2021

- [1] 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.
- [2] 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.
- [3] 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.
- [4] 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.
- [5] 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.
- [6] 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.
- [7] 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.
- [8] 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. *Virtual*.

2020

- [9] Konkle, T. (2020). Emergence of multiple visual areas without a feature hierarchy. Talk presented at the 1<sup>st</sup> annual conference *From Neuroscience to Artificially Intelligent Systems (NaiSys)*, Cold Spring Harbor (virtual), November, 2020.
- [10] 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.
- [11] 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.

- [12] 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..
- [13] 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..
- [14] 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.
- [15] \*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 20<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 15-20, St. Pete Beach, FL.
- [16] 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.
- [17] 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.
- [18] 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.
- [19] 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.
- [20] 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.
- [21] 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
- [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 *Visual Properties Driving Visual Preferences* Virtual Workshop, June 12.
- 2019
- [23] Janini, D., Konkle, T., (2019). Shape features learned for object classification can predict behavioral discrimination of written symbols. Poster presented at 19<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.
- [24] Prince, J., Konkle, T. (2019). Relating category-selective regions in biological and artificial neural networks. Poster presented at 19<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.
- [25] Park, J., Josephs, E., Konkle, T. (2019). Reachable or Not? Perceptual judgments of reachability along the object-scene continuum. Poster presented at 19<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.
- [26] Josephs, E., Konkle, T. (2019). Large-scale neural dissociations between views of objects, scenes, and reachable spaces. Poster presented at 19<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.
- [27] Magri, C., Long, B., Chiou, R., Konkle, T. (2019). Behavioral and Neural Associations between Object Size and Curvature. Poster presented at 19<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.
- [28] Tarhan, L., Konkle, T. (2019). Reliability-Based Voxel Selection for Condition-Rich Designs. Talk presented at 19<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.
- [29] 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 19<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.
- [30] Konkle, T. (2019). Emergence of Multiple Retinotopic Maps Without a Feature Hierarchy. Talk to be presented at 19<sup>th</sup> annual meeting of the *Vision Sciences Society*, May 17-22, St. Pete Beach, FL.

- [31] 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.
- [32] 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.
- [33] 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.
- [34] 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
* <i>Science of Intelligence Distinguished Lecture Series, Berlin, Germany</i>	2020 Dec - cancelled
* <i>Neurobiology of Cognition, Gordon Research Conference, Discussion Leader</i>	2020 July - cancelled
* <i>MGH/Martinos Center, Brainmap Seminar, Cambridge, MA</i>	2020 May - cancelled
* <i>Concepts, Actions, and Objects Conference, Rovereto, Italy</i>	2020 May - cancelled
* <i>Cognition, AI, and Society: Status and Perspectives Workshop, Boston College</i>	2020 April - cancelled
* <i>Cognitive Neuroscience Society Symposium, Boston</i>	2020 March - cancelled
* <i>Janelia Research Farms</i>	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	<i>expected Spring 2023</i>
Ruben Van Genutgten	<i>expected Spring 2022</i>
Lauren DiNicola	<i>expected Spring 2022</i>
Colin Conwell	<i>expected Spring 2022</i>
John Mark Taylor	<i>May 2021</i>
Caterina Magri	<i>September 2019</i>
Roger Strong	<i>May 2019</i>
Ruosi Wang	<i>Fall 2018</i>
Mark Thornton	<i>Spring 2017</i>

*Masters and Ph.D. Thesis Committees – External*

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

## Service

*Formal Mentoring, Outreach, and Activities*

Organizer of Mentorship Outreach initiatives at the Trends in Psychology Summit Harvard Women in Psychology Group	<i>Nov 2021</i>
Speaker: National Science Foundation Symposium on AI and Neuroscience “Convergence of New Insights from AI and Neuroscience in Understanding Visual Perception and the Brain”	<i>June 2021</i>
Contributor: Generative vs. Discriminative models of high-level vision Cognitive Computational Neuroscience – Generative Adversarial Collaboration	<i>Fall 2021</i>
Panelist: Generative Models and the Brain Center for Brains, Minds, & Machines, MIT	<i>May 2021</i>
Mentor for the Harvard Graduate Women in Stem (HGWISE) program	<i>Fall 2020, Spring 2021</i>
Meet the Speakers Mentoring Session NaiSys Meeting	<i>November 2020</i>
Mentor for the Females of Vision et al, (FoVea) networking program Vision Sciences Society	<i>May 2020</i>



Meet the Professors Participant Vision Sciences Society	<i>May 2020</i>
Co-Designed and Co-Implemented Website for Vision Sciences Society Conference Vision Sciences Society	<i>May 2020</i>
“Peer-networking for Students and Postdocs” Co-organizer, Vision Sciences Society Workshop	<i>May 2019, May 2020*</i>
Mathematical Biosciences Workshop, Harvard University Co-organizer, “Invariance and Geometry in Sensation, Action and Cognition”	<i>April 2019</i>
How to be a Successful Post-Doc, Harvard University Panel member, on how to approach a post-doc and the job market	<i>June 2018</i>
Center for Brains, Minds and Machines Panelist Discussion, MIT Panel member, discussing “Deep networks, the brain and AI”	<i>October 2017</i>
Women In Neuroscience Group Meeting, University of Western Ontario Met with a group of graduate students to discuss being a woman in this profession.	<i>July 2016</i>
NSF Center for Brains, Minds and Machines (CBMM) Summer Seminar Series 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.	<i>July 2015</i>
“Taking the next steps as a woman in neuroscience” Panelist Organized by the Women in Neuroscience committee, Harvard University	<i>March 2015</i>
Co-Organizer of the Prehistory of the Brain Collective Sponsored by the Mind, Brain, & Behavior Initiative, Harvard University	<i>2013-2014</i>

### *Department Committees*

Diversity, Inclusion, & Belonging Committee (Co-Chair in 2020) Psychology Department, Harvard	<i>2020-current</i>
Committee on the Needs of Graduate Students of Color and Female Graduate Students, Division of Social Sciences, Harvard	<i>2020</i>
Mind, Brain, and Behavior Head Tutor, Psychology, Harvard	<i>2018-current</i>
Faculty of Arts and Sciences Standing Committee on Mind, Brain, and Behavior	<i>2018-current</i>
Restricted Funds Committee, Psychology, Harvard University	<i>2019</i>
Cognition, Brain, & Behavior Seminar Organizer, Harvard	<i>2016-2017</i>
Harvard Psychology Departmental Colloquium Committee	<i>2015-2017</i>
Faculty Interest Group on Representation, Organizing Committee, Harvard	<i>2013-2014</i>
Cognitive Job Search Committee, Massachusetts Institute of Technology	<i>2009-2010</i>

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 – Neuroscience*

Cerebral Cortex  
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