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Department of Psychology  
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## Education & Professional Experience

### **New York University**

2013 – present. Assistant Professor, Psychology and Neural Science. Associate Investigator, Neuroscience Institute, NYU Langone Medical Center.

### **Stanford University**

2012 – 2013. Social Science Research Associate, Psychology

2007 – 2012. Postdoctoral fellow, Psychology  
Advisor: Brian Wandell

### **Massachusetts Institute of Technology**

2001 – 2007. PhD, Brain and Cognitive Sciences. Thesis: “Common mechanisms for the representation of real, imagined, and implied visual motion.”  
Advisors: Lera Boroditsky, Barton L Anderson

### **City College, City University of New York**

1999 – 2001. MS, Neurobiology. Thesis: “Temporal integration of defocus in the control of eye growth” (Degree awarded May, 2005)  
Thesis Advisor: Josh Wallman

1997 – 1999. Research Assistant, Department of Biology, Josh Wallman’s lab

### **Columbia University, Columbia College**

1990 – 1995. BA, Classics, cum laude

## Funded Research

2016 – 2021. R01 MH111417, NIH (NIMH). Awarded 2016 for 5 years. Role: Co-PI.  
Development and validation of empirical models of the neuronal population activity underlying non-invasive human brain measurements.

2016 – 2017. Center for Data Science Seed Grant (NYU). Awarded 2016 for 1 year. Role: PI.  
The standard cortical observer.

2013 – 2016. R00 EY022116 Career award, NIH (NEI). Awarded 2013 for 3 years. Role: PI.  
Multimodal imaging of spatiotemporal integration in the human visual system.

- 2012 – 2013. K99 EY022116 Career award, NIH (NEI). Awarded 2011 for 2 years. Role: PI. Multimodal imaging of spatiotemporal integration in the human visual system.
- 2008 – 2011. F32EY019224 NRSA Postdoctoral fellowship, NIH (NEI). Awarded in 2008 for 3 years. The representation of surface appearance in visual cortex.
- 2004 – 2007. NSF Graduate Research Fellowship – awarded in 2002 for 3 years (start 2004).

### Training / Core Grants

- 2016 – 2021 T90-A043219/R99Da043849, NIH. Wang and Ma (PIs). Role: Co-Investigator. Training in Computational Neuroscience.
- 2015 – 2020 P30-EY013079, NIH (NEI). Movshon (PI). Role: Other Significant Contributor. Core Grant For Vision Research.
- 2015 – 2020 T32- MH096331, NIH (NIMH). Rudy and Klann (PIs). Role: Mentor. Training Program in Neuroscience.
- 2014 – 2019 T32-EY007136, NIH (NEI). Movshon (PI). Role: Mentor. Training in Visual Neuroscience.

### Publications

*N.B.:* Arrows (➤) indicate submitted after NYU start date (Sep 1, 2013). Underlined authors are current of former trainees (PhD students, postdocs, research assistant).

#### In preparation

- Benson N, Winawer J. A Bayesian model of human retinotopic maps.
- Regev T, Winawer J, Gerber E, Nelken I, Knight RT, Parvizi J, Deouell LY. Human posterior parietal cortex responds to visual stimuli as early as peristriate occipital cortex

#### Under review and preprints

- Kupers E, Wang H, Kay K, Heeger D, Winawer J. (Under review). Broadband spectral responses in visual cortex revealed by a new MEG denoising algorithm.
- Zhou J, Benson N, Kay K, Winawer J. (Under review). Systematic changes in temporal summation across human visual cortex.
- Horiguchi H, Takemura H, Liao J, Wandell BA, Winawer J. (Under review). Responsive visual field maps despite a V1 lesion and quarterfield blindness.

#### Peer-reviewed journal articles

- Winawer J, Witthoft N. (2017). Identification of the ventral occipital visual field maps in the human brain. *F1000Res*.
- Hermes D, Nyugen M, Winawer J. (2017). Neural synchrony and the relationship between the BOLD response and the Local Field Potential. *PLoS Biology*, 15:e2001461. doi:10.1371/journal.pbio.2001461
- Mackey WE, Winawer J, Curtis CE. (2017). Visual field maps in human association cortices. *ELife*, 6:e22974. doi:10.7554/eLife.22974.

- [Hermes D, Kasteleijn-Nolst Trenité K, Winawer J. \(2017\). Gamma oscillations and photosensitive epilepsy. \*Current Biology\*. 27:R336-R338. doi:10.1016/j.cub.2017.03.076](#)
  - [Commentary: Honey C, Valiante T \(2017\). Neuroscience: When a single image can cause a seizure. \*Current Biology\*. 27:R394–R397. doi:10.1016/j.cub.2017.03.067](#)
- [Winawer J, Parvizi J. \(2016\). Linking electrical stimulation of human primary visual cortex, size of affected cortical area, neuronal population activity, and subjective experience. \*Neuron\*, 92:1213-1219. doi:10.1016/j.neuron.2016.11.008](#)
- [Horiguchi H, Wandell BA, Winawer J \(2016\). A predominantly visual subdivision of the right temporo-parietal junction \(vTPJ\). \*Cerebral Cortex\*, 26:639-46, Epub 2014. doi:10.1093/cercor/bhu226](#)
- [Winawer J, Witthoft N. \(2015\). Human V4 and ventral occipital retinotopic maps. \*Visual Neuroscience\*, 32:e020. doi:10.1017/S0952523815000176](#)
- [Witthoft N, Winawer J, Eagleman D. \(2015\). Prevalence of learned grapheme-color pairings in a large online sample of synesthetes. \*PLoS One\*, 10:e0118996. doi:10.1371/journal.pone.0118996](#)
- [Wandell BA, Winawer J. \(2015\). Computational neuroimaging and population receptive fields. \*Trends in Cognitive Sciences\*, 9:349-357. doi:10.1016/j.tics.2015.03.009](#)
- [Hermes D, Miller KJ, Wandell BA, Winawer J \(2015\). Gamma oscillations in visual cortex: the stimulus matters. \*Trends in Cognitive Science\*, 19:57-58. doi:10.1016/j.tics.2014.12.009](#)
- [Hermes D, Miller KJ, Wandell BA, Winawer J \(2015\). Stimulus dependence of gamma oscillations in human visual cortex. \*Cerebral Cortex\*, 25:2951-9, Epub 2014. doi:10.1093/cercor/bhu091](#)
  - [Commentary: Mazaheri A, Van Diepen R \(2015\). Gamma oscillations in a bind? \*Cerebral Cortex\* 25:4651–4652. doi:10.1093/cercor/bhu136](#)
- [Takemura H, Rokem A, Winawer J, Wandell BA, Yeatman J, Pestilli F. \(2015\). A major human white-matter pathway between dorsal and ventral visual cortex. \*Cerebral Cortex\*, Epub ahead of print. doi:10.1093/cercor/bhv064](#)
- [Yoon JMD, Witthoft N, Winawer J, Frank MC, Everett D, Gibson E. \(2014\). Cultural differences in photo-triggered perceptual reorganization. \*PLoS One\*, 9:e110225. doi:10.1371/journal.pone.0110225](#)
- [Kay K, Rokem A, Winawer J, Wandell BA \(2013\). GLMdenoise: A fast, automated technique for denoising task-based fMRI data. \*Frontiers in Brain Imaging Methods\*, 7. doi:10.3389/fnins.2013.00247](#)
- [Winawer J, Kay KN, Foster BL, Rauschecker AM, Parvizi J, Wandell BA. \(2013\). Asynchronous broadband signals are the principal source of the BOLD response in human visual cortex. \*Current Biology\*, 23:1145-53. doi:10.1016/j.cub.2013.05.001](#)
- [Kay KN, Winawer J, Mezer A, Wandell BA. \(2013\). Compressive spatial summation in human visual cortex. \*Journal of Neurophysiology\*, 10:481-94. doi:10.1152/jn.00105.2013](#)
- [Kay KN, Winawer J, Rokem A, Mezer A, Wandell BA. \(2013\). A two-stage cascade model of BOLD responses in human visual cortex, \*PLoS Computational Biology\*. 9:e1003079. doi:10.1523/JNEUROSCI.4558-12.2013](#)
- [Shum J, Hermes D, Foster B, Dastjerdi M, Rangarajan V, Winawer J, Miller K, Parvizi J. \(2013\). A brain area for visual numerals. \*Journal of Neuroscience\*, 33:6709-6715. doi:10.1523/JNEUROSCI.4558-12.2013](#)
- [Horiguchi H, Winawer J, Dougherty R, Wandell BA. \(2013\). Human color sensitivity: Trichromacy revisited. \*Proceedings of the National Academy of Science\*, 110:E260–E269. doi:10.1073/pnas.1214240110](#)
- [Witthoft N, Winawer J. \(2013\). Learning, memory, and synesthesia. \*Psychological Science\*, 24:258-65. doi:10.1177/0956797612452573](#)
- [Haak KV, Winawer J, Harvey BM, Dumoulin BM, Wandell BA, Cornelissen FW. \(2012\). Connective field modeling. \*NeuroImage\*, 66:376-384. doi:10.1016/j.neuroimage.2012.10.037](#)

- Nune G\*, Winawer J\*, Rauschecker A, Foster B, Dastjerdi M, Wandell BA, Parvizi J. (2011). Problem of signal contamination in inter-hemispheric dual-sided electrodes. *Epilepsia*, 52:e176-e180. doi:10.1111/j.1528-1167.2011.03284.x \*Co-first authors.
- Wandell BA & Winawer J. (2011). Imaging retinotopic maps in the human brain. *Vision Research*, 51:718-37. doi:10.1016/j.visres.2010.08.004
- Winawer J, Horiguchi H, Sayres R, Amano K, Wandell BA. (2010). Mapping hV4 and ventral occipital cortex: The venous eclipse. *Journal of Vision*, 10(5). doi:10.1167/10.5.1
- Levin N, Dumoulin SO, Winawer J, Dougherty RF, Wandell BA. (2010). Cortical maps and white matter tracts following long period of visual deprivation and retinal image restoration. *Neuron*, 65:21-31. doi:10.1016/j.neuron.2009.12.006
- Winawer J, Huk A, Boroditsky L. (2010). A motion aftereffect from visual imagery of motion. *Cognition*, 114: 276-284. doi:10.1016/j.cognition.2009.09.010
- Fedorenko E, Patel A, Casasanto D, Winawer J, Gibson E. (2009). Structural integration in language and music: Evidence for a shared system. *Memory & Cognition*, 37:1-9. doi:10.3758/MC.37.1.1
- Anderson BL, Winawer J. (2008). Layered image representations and the computation of surface lightness. *Journal of Vision*, 8:1-22. doi:10.1167/8.7.18
- Winawer J, Huk A, Boroditsky L. (2008). A motion aftereffect from viewing still photographs depicting motion. *Psychological Science*, 19:276-283. doi:10.1111/j.1467-9280.2008.02080.x
- Winawer J, Witthoft N, Frank M, Wu L, Wade A, Boroditsky L. (2007). The Russian Blues reveal effects of language on color discrimination. *Proceedings of the National Academy of Science*, 104:7780-7785. doi:10.1073/pnas.0701644104
- Kee CS, Hung LF, Qiao Y, Ramamirtham R, Winawer J, Wallman J, Smith EL. (2007). Temporal constraints on experimental emmetropization in infant monkeys. *Investigative Ophthalmology and Vision Science*, 48:957-962. doi:10.1167/iovs.06-0743
- Witthoft N, Winawer J. (2006). Synesthetic colors determined by having colored refrigerator magnets in childhood. *Cortex*, 42:175-183.
- Anderson BL, Winawer J. (2005). Image segmentation and lightness perception. *Nature*, 434:79-83. doi:10.1038/nature03271
- Zhu X, Park T, Winawer J, Wallman J. (2005). In a matter of minutes, the eye can know which way to grow. *Investigative Ophthalmology and Vision Science*, 46:2238-2241. doi:10.1167/iovs.04-0956
- Winawer J, Zhu X, Choi J, Wallman J. (2005). Ocular compensation for alternating myopic and hyperopic defocus. *Vision Research*, 45:1667-1677. doi:10.1016/j.visres.2004.12.013
- Wallman J, Winawer J. (2004). Homeostasis of eye growth and the question of myopia. *Neuron*, 43:447-468. doi:10.1016/j.neuron.2004.08.008
- Zhu X, Winawer J, Wallman J. (2003). The potency of myopic defocus in lens-compensation. *Investigative Ophthalmology and Vision Science*, 44:2818-2827. doi:10.1167/iovs.02-0606
- Park TW, Winawer J, Wallman J. (2003). Further evidence that chick eyes use the sign of blur in spectacle lens compensation. *Vision Research*, 43:1519-1531. doi:10.1016/S0042-6989(03)00180-9
- Winawer J, Wallman J. (2002). Temporal constraints on lens compensation in chicks. *Vision Research*, 42:2651-2668. doi:10.1016/S0042-6989(02)00300-0

### Book Chapters

- Winawer J, Horiguchi H. (2017). Visual system architecture. In P. Artal (Ed.), *The new handbook of visual optics*. New York and London: Taylor & Francis Books, Inc.
- Wandell BA, Winawer J, Kay KN (2015). Computational Modeling of Responses in Human Visual Cortex. In A. W. Toga (Ed.), *Brain Mapping* (pp. 651-659). Waltham: Academic Press.

- Winawer J, Witthoft N. (2013) Effects of color terms on color perception and cognition. In R Luo (Ed.), *Encyclopedia of Color Science and Technology*. Berlin & Heidelberg: Springer. doi:10.1007/978-3-642-27851-8.

### Conference Proceedings

- Farrell JE, Jiang H, Winawer J, Brainard DH, Wandell BA. (2014). Modeling Visible Differences: The Computational Observer Model. *Society for Information Display*. Symposium Digest of Technical Papers, 45(1):353-256. doi:10.1002/j.2168-0159.2014.tb00095.x. §Distinguished Paper of the 2014 SID International Symposium.
- Yoon JMD, Witthoft N, Winawer J, Frank MC, Everett DL, Gibson E, Markman E. (2011). Thinking for seeing: Enculturation of visual-referential expertise as demonstrated by photo-triggered perceptual reorganization of two-tone Mooney images. *Proceedings of the 33rd Annual Meeting of the Cognitive Science Society*, p. 2896-2901.
- Yoon J, Witthoft N, Winawer J, Markman E. (2007) Striking deficiency in top-down perceptual reorganization of two-tone images in preschool children. *Proceedings of the 6th IEEE International Conference on Development and Learning*, p. 181-186. doi:10.1109/DEVLRN.2007.4354071.
- Davidenko N, Witthoft N, Winawer J. (2007) Gender aftereffects in face silhouettes reveal face-specific processes. *Object Perception, Attention, and Memory, Annual Meeting. Visual Cognition*, 16(1):99-102. doi:10.1080/13506280701692097.
- Davidenko N, Winawer J, Witthoft N, Ramscar M. (2006). Implicit gender aftereffects in the perception of face silhouettes. *Proceedings of the 28th Annual Meeting of the Cognitive Science Society*, p. 2468-2468.
- Witthoft N, Winawer J, Boroditsky B. (2006) How looking at someone you don't know can help you to recognize someone you do. *Proceedings of the 28th Annual Meeting of the Cognitive Science Society*, p. 894-899.
- Witthoft N, Winawer J, Wu L, Frank M, Wade A, Boroditsky L. (2003) Effects of language on color discriminability. *Proceedings of the 25th Annual Meeting of the Cognitive Science Society*, p. 1247-1252.
- Wallman J, Winawer J, Zhu X, Park TW. (2000) Might myopic defocus prevent myopia? *Proceedings of the Eighth International Conference on Myopia*, p. 138-142.

### Conference Presentations

*N.B.* Asterisks (\*) indicate that a manuscript is currently in preparation based on the conference presentation.

- Zhou J, Benson NC, Pelli D, Winawer J. Conservation of Crowding Distance in Human V4. *Optical Society of America Fall Vision Meeting* (2017).
- Holdgraf C, Devinsky O, Flinker A, Ramsey N, Petridou N, Winawer J, Hermes D. BIDS-iEEG: A data structure for intracranial EEG that facilitates the integration with other human imaging methods. *Society for Neuroscience Annual Meeting* (2017).
- Kay KN, Winawer J, Zhou JY, Sertel M, Yoshor D, Beauchamp M. The dynamics of top-down modulation in human visual cortex. *Society for Neuroscience Annual Meeting* (2017).
- Jamison KW, Vizioli L, Zhang R, Tao J, Winawer J, Kay. A tool for automatic identification of cerebral sinuses and corresponding artifacts in fMRI. *Vision Sciences Society Annual Meeting* (2017).
- Benson NC, Broderick WF, Müller H, Winawer J. An anatomically-defined template of BOLD response in V1-V3. *Vision Sciences Society Annual Meeting* (2017).
- Zhou J, Choi S, Winawer J. Temporal windows in psychophysical discrimination and in neural responses in human visual cortex. *Vision Sciences Society Annual Meeting* (2017).
- Kupers E, Mackey WE, Curtis CE, Winawer J. The topographical relationship between visual field maps in association cortex and brain areas involved in non-visual cognition. *Vision Sciences Society Annual Meeting* (2017).
- Curtis CE, Mackey WE, Ding X, Wang X, Winawer J. Visual field maps constrain working memory precision. *Society for Neuroscience Annual Meeting* (2016).

- Winawer J, Parvizi J. Quantifying the links between electrical stimulation of the human primary visual cortex, size of affected cortical area, neuronal population activity, and subjective experience. *Society for Neuroscience Annual Meeting* (2016).
- \* Olsson C, Benson N, Winawer J. Towards a standard cortical observer model in human V1-V3. *Society for Neuroscience Annual Meeting* (2016).
- \* Zhou J, Benson N, Kay K, Winawer J. Temporal Summation and Adaptation in Human Visual Cortex. *Vision Sciences Society Annual Meeting* (2016).
- \* Hermes D, Nyugen M, Winawer J. Neural synchrony and the relationship between the BOLD response and the Local Field Potential. *Society for Neuroscience Annual Meeting* (2015).
- \* Winawer J, Kupers E, Chua N, Hermes D, Amano K. Stimulus selectivity of gamma oscillations in human visual cortex measured with magnetoencephalography. *Society for Neuroscience Annual Meeting* (2015).
- \* Benson N, Kay K, Winawer J. An automated tool for parcellating human visual cortex in individual subjects based on functional imaging data. *Society for Neuroscience Annual Meeting* (2015).
- \* Benson N, Aguirre G, Winawer J. Use of a prior to improving the retinotopic maps of individual subjects. *Vision Sciences Society Annual Meeting* (2015).
- \* Olsson C, Kay K, Winawer J. Orientation-tuned surround suppression improves computational models of human visual cortex. *Vision Sciences Society Annual Meeting* (2015).
- \* Kupers E, Wang H, Kay K, Heeger D, Winawer J. Broadband spectral responses in visual cortex revealed by a new MEG denoising algorithm. *Vision Sciences Society Annual Meeting* (2015).
- Nyugen M, Hermes D, Winawer J. Broadband field potentials, but not gamma oscillations, correlate with BOLD fMRI in human visual cortex. *Vision Sciences Society Annual Meeting* (2015).
- \* Winawer J, Parvizi J. Using conscious visual perception to quantify the effect of electrical stimulation of human cerebral cortex. *Society for Neuroscience Annual Meeting* (2014).
- \* Hermes D, Kay KN, Winawer J. A two stage, cascade model of electrocorticographic signals in human visual cortex. *Society for Neuroscience Annual Meeting* (2014).
- \* Curtis CE, Mackey WE, Winawer J. Visual field maps in human association cortices. *Society for Neuroscience Annual Meeting* (2014).
- Horiguchi H, Liao YJ, Wandell BA, Winawer J. Intact extrastriate maps following V1 quarterfield lesion. Association for Research in Vision and Ophthalmology Annual Meeting (2014).
- Hermes D, Kay KN, Winawer J. Stimulus selectivity of broadband field potentials, but not gamma oscillations, matches population responses as measured by BOLD fMRI in human visual cortex. *Vision Sciences Society Annual Meeting* (2014).
- \* Witthoft N, Winawer J, Kiani R. The Behavioral Effects of Adaptation to Facial Expressions are Explained by Changes in the Decision-Making Process. *Vision Sciences Society Annual Meeting* (2013).
- Winawer J, Hermes D, Parvizi J, Wandell BA, Miller J. Gratings elicit narrowband gamma responses in human visual field potentials; Faces, houses, and noise patterns elicit broadband responses. *Society for Neuroscience Annual Meeting* (2013).
- Takemura H, Rokem A, Winawer J, Wandell BA, Yeatman J, Pestilli F. Human white matter fascicles between ventral and dorsal visual field maps. *Society for Neuroscience Annual Meeting* (2013).
- Horiguchi H, Wandell BA, Winawer J. A right temporo-parietal junction region that responds strongly to salient or attended visual stimuli (vTPJ). *Society for Neuroscience Annual Meeting* (2013).
- Kay K, Winawer J, Rokem A, Mezer A, Wandell BA. A two-stage cascade model of BOLD responses in human visual cortex. *Society for Neuroscience Annual Meeting* (2013).
- Witthoft N, Winawer J, Cocjin J, Eagleman DM. Incidence of learned synesthesia in a large online sample of color grapheme synesthetes. *Society for Neuroscience Annual Meeting* (2013).

- Winawer J, Miller J, Hermes D, Parvizi J, Wandell BA. Oriented luminance gratings, but not noise patterns, induce narrow gamma band ECoG responses in human visual cortex. *Vision Sciences Society Annual Meeting* (2013).
- Winawer J. The fourth visual area: a question of homology. *Vision Sciences Society Annual Meeting* (2012).
- Horiguchi H, Winawer J, Dougherty RF, Wandell BA. Peripheral photopic sensitivity to melanopsin and cone photopigments. *Vision Sciences Society Annual Meeting* (2012).
- Hermes D, Winawer J, Rangarajan V, Shum J, Foster BL, Parvizi J. Mapping the ventral occipitotemporal reading network with fMRI and ECoG. *Society for Neuroscience Annual Meeting* (2012).
- Shum J, Dastjerdi M, Foster BL, Winawer J, Rangarajan V, Hermes D, Miller KJ, Parvizi J. A human brain area for seeing numbers. *Society for Neuroscience Annual Meeting* (2012).
- Winawer J, Rauschecker A, Kay K, Parvizi J, Wandell BA. Population receptive fields in human visual cortex measured with subdural electrodes. *Society for Neuroscience Annual Meeting* (2011).
- Kay K, Winawer J, Mezer A, Wandell BA. Compressive spatial summation improves models of extrastriate responses. *Society for Neuroscience Annual Meeting* (2011).
- Nune G, Winawer J, Rauschecker AM, Dastjerdi M, Foster BL, Wandell BA, Parvizi J. Problem of signal contamination in inter-hemispheric dual-sided subdural electrodes. *Society for Neuroscience Annual Meeting* (2011).
- Haak KV, Winawer J, Harvey BM, Dumoulin BM, Wandell BA, Cornelissen FW. Cortico-cortical population receptive field modeling. *European Conference on Visual Perception* (2011).
- Winawer J, Rauschecker AM, Parvizi J, Wandell BA. Population receptive fields in human visual cortex measured with subdural electrodes. *Vision Sciences Society Annual Meeting* (2011).
- Kay K, Winawer J, Mezer A, Wandell BA. Spatial saturation in human visual cortex. *Vision Sciences Society Annual Meeting* (2011).
- Horiguchi H, Winawer J, Wandell BA, Dougherty R. Novel MR Safe Stimulator with Six Color Channels at Accurate High Temporal Frequencies. *Vision Sciences Society Annual Meeting* (2011).
- Witthoft N, Winawer J. Ten Color-grapheme synesthetes with highly similar learned associations. *Vision Sciences Society Annual Meeting* (2010).
- Winawer J, Sayres R, Horiguchi H, Amano K, Wandell BA. Seeing around the veins: Mapping ventral occipital cortex. *Society for Neuroscience Annual Meeting* (2009).
- Bowen RF, Dougherty RF, Rauschecker AM, Perry LM, Winawer J, Wandell BA. Integration of luminance and motion cues to word forms. *Society for Neuroscience Annual Meeting* (2009).
- Winawer J, Sayres R, Amano K, Wandell BA. Visual field coverage of human V4. *Vision Sciences Society Annual Meeting* (2009).
- Yoon JMD, Winawer J, Witthoft, N, Markman, E. Representational requirements for perceptual reorganization. *Biennial Meeting of the Society for Research in Child Development, Denver, CO* (2009).
- Yoon JMD, Winawer J, Witthoft N, Markman, E. Mooney image perception in preschool-aged children. *Vision Sciences Society Annual Meeting* (2007).
- Davidenko N, Witthoft N, Winawer J. Gender aftereffects in face silhouettes depend on face-specific processes. *Vision Sciences Society Annual Meeting* (2007).
- Fedorenko E, Patel A, Casasanto D, Winawer J, Gibson E. Structural integration in language and music: A shared system. *CUNY Conference on Human Sentence Processing, UC San Diego* (2007).
- Anderson BL, Winawer J. Scission and the perception of lightness. *Vision Sciences Society Annual Meeting* (2006).
- Davidenko N, Winawer J, Witthoft N. Gender aftereffects in the perception of silhouetted face profiles. *Vision Sciences Society Annual Meeting* (2006).

- Witthoft N, Winawer J. An objective measure of the effect of adaptation on recognition of famous faces. *Vision Sciences Society Annual Meeting* (2006).
- Winawer J, Witthoft N, Huk A, Boroditsky L. Common mechanisms for processing of perceived, inferred, and imagined visual motion. *Vision Sciences Society Annual Meeting* (2005).
- Witthoft N & Winawer J. Anticolors: Behavioral and neural correlates of the conscious experience of a color-grapheme synesthete. *Annual general meeting of the UK Synaesthesia Association* (2005).
- Winawer J, Witthoft N, Huk A, Boroditsky L. The Neural Basis of a Motion Aftereffect from Mental Imagery of Motion. *Cognitive Neuroscience Society Annual Meeting* (2005).
- Winawer J, Witthoft N, Huk A, Boroditsky L. Moving Mental Representations. *Cognitive Neuroscience Society Annual Meeting* (2004).
- Winawer J, Rosenholtz, R, Witthoft N, Boroditsky L. Language, Categorization, and Visual Search. *Vision Sciences Society Annual Meeting* (2004).
- Winawer J, Huk A, Boroditsky L. Mental imagery of motion causes direction-specific motion adaptation. *Cognitive Neuroscience Society Annual Meeting* (2003).
- Winawer J, Witthoft N. Modulating the synesthetic experience. *European Conference on Visual Perception* (2003).
- Witthoft N, Winawer J. Experience dependent synesthesia: A case study. *Cognitive Neuroscience Society Annual Meeting* (2003).
- Witthoft N, Winawer J. Casting shadows on synesthesia. *Vision Sciences Society Annual Meeting*, 2003.
- Winawer J, Witthoft N, Wu L, Boroditsky L. Effects of language on color discriminability. *Vision Sciences Society Annual Meeting* (2003).
- Anderson BL, Winawer J. Layered image representations and the perception of lightness. *Vision Sciences Society Annual Meeting* (2003).
- Zhu X, Winawer J, Choi J, Wallman J. The effect of defocusing lenses depends on the temporal integration characteristics of the emmetropization mechanism. *Association for Research in Vision and Ophthalmology Annual Meeting* (2002).
- Kee CS, Hung LF, Qiao Y, Ramamirtham R, Winawer J, Wallman J, Smith EL. Temporal constraints on experimental emmetropization in infant monkeys. *Association for Research in Vision and Ophthalmology Annual Meeting* (2002).
- Winawer J, Khan S, Wallman J. Enduring Responses to Spectacle Lens-Wear in Chicks. *Association for Research in Vision and Ophthalmology Annual Meeting* (2001).
- Park TW, Winawer J, Wallman J. In a matter of minutes the eye can know which way to grow. *Association for Research in Vision and Ophthalmology Annual Meeting* (2001).
- Zhu X, Feldkaemper M, Winawer J, Park TW, Wallman J. What ocular components underlie the inhibition of myopia or hyperopia by glucagon or its antagonist? *Association for Research in Vision and Ophthalmology Annual Meeting* (2001).
- Winawer J, Zhu X, Park TW, Wallman J. Is myopic blur more important than sharp vision for positive-lens compensation? *Association for Research in Vision and Ophthalmology Annual Meeting* (2000).
- Winawer J, Wallman J, Kee C. Differential responses of ocular length and choroid thickness in chick eyes to brief periods of plus and minus lens-wear. *Association for Research in Vision and Ophthalmology Annual Meeting* (1999).

**Invited Talks** (since September, 2013)

2017	City College of New York, Biomedical Engineering Departmental Seminars
2017	Rutgers University, Center for Cognitive Science
2017	NYU Computational Neuroscience Symposium
2017	Baylor College of Medicine, Seminar at the Core for Advanced MRI
2016	10th International Workshop on Advances in Electrographicography, San Diego, CA
2016	University of Pennsylvania, Vision Seminar Series.
2016	University of Giessen, Germany, PRISM 6 workshop: Perceptual Representations of Illumination, Shape and Materials
2016	SUNY College of Optometry, New York, Schnurmacher Institute for Vision Research Colloquium Series
2016	City College of New York, Biology Colloquium
2015	Brown University, Perception and Action Seminar
2015	Dartmouth University, fMRI Brown Bag
2015	University of Utrecht, Netherlands, Experimental Psychology Colloquium
2015	EU Innovative Training Network Consortium Workshop, Keynote Address, Utrecht, NL
2015	Computational Eye and Brain Workshop, Stanford University
2015	Kavli Summer Institute in Cognitive Neuroscience, UC San Diego
2014	Columbia Psychology Seminar
2014	Jikei University School of Medicine, Tokyo
2014	Osaka University, Center for Information and Neural Networks
2014	NYU, Workshop on modeling variability in neuronal populations
2014	NYU and Weizmann Institute of Science, Conference on Frontiers in Brain and Cognition
2013	University of Illinois Urbana Champaign, Neuroscience Seminar

**Teaching**

2014 – 2017	NYU, Undergraduate: Introduction to Perception
2015 – 2017	NYU, Graduate: Perception and Attention (team taught course; section on <i>Spatial vision and linear systems theory</i> )
2014 – 2016	NYU, Graduate: Cognitive Neuroscience (1-2 lectures per year on Vision and Human Neuroscience methods)
2006 – 2007	Stanford, Graduate: Cognitive Neuroscience (co-instructor with Nathan Witthoft)
2006	Stanford, Undergraduate: Sensation & Perception (co-instructor with Nathan Witthoft and Brian Wandell)
2005	Stanford, Undergraduate: Introduction to Cognitive Psychology (co-instructor with Nick Davidenko and Adam November)

**Service and University Committees**

2017	NYU Center for Data Science, Seed Grant Reviewing
2016 – 2017	NYU Abu Dhabi Psychology Search Committee (Cog Neuro)
2015 – 2016	Cognition & Perception Seminar Committee

- 2014 – current Education Policy Committee
- 2014 – current Center for Brain Imaging Committee
- 2013 – 2014 Center for Brain Imaging, Protocol Review Committee
- 2013 – 2014 Organizer, Conference for Frontiers in Brain and Cognition, NYU-Weizmann Institute of Science (Held at NYU, March 18-21, 2014)
- 2013 – 2014 NYU Abu Dhabi Psychology Search Committee (Perception; 4 faculty hires)
- 2007 – 2011 Coordinator of *Vision Lunch* talk series, Department of Psychology, Stanford
- 2005 Graduate admissions committee, Department of Psychology, Stanford
- 2003 – 2004 Graduate representative to the Department of Brain & Cognitive Sciences, MIT
- 2002 – current Ad hoc reviewing: Attention, Perception, and Psychophysics; Cerebral Cortex; Cognition; Current Biology; Developmental Science; Frontiers in Human Neuroscience; Human Brain Mapping; IEEE Transactions on Medical Imaging; Journal of Experimental Psychology, HPP; Journal of Neurophysiology; Journal of Neuroscience; Journal of Vision; Memory and Cognition; Nature; Nature Communications; Neuron; Neuroreport; PNAS; Psychonomic Bulletin and Review; Science; Vision Research

## Student and Postdoctoral Advising

- Primary advising to doctoral students
  - Jingyang Zhou (Psychology, 2014-current)
  - Eline Kupers (Psychology, 2015-current)
  - Serra Favila (Psychology, 2016-current)
  - Catherine Olsson (Neuroscience, 2014-2016, graduated with M Phil)
  - William Broderick (Neuroscience, 2016-current, co-advised with Eero Simoncelli)
- Postdoctoral fellows
  - Dora Hermes (2013-2016; starting assistant professor position in 2018)
  - Noah Benson (2014-current)
  - Iris Groen (starting October, 2017)
- Postbac/predoc: 3 (1 current, 2 former; former postbacs were both admitted to PhD programs)
- Undergraduate: 2 former: 1 Psychology honors student, 1 Neuroscience major
- Doctoral / thesis committees: 21 (Psychology: 7 current, 7 graduated, 3 changed committees; Neuroscience: 2 active, 2 graduated)

## Awards and Honors

- Distinguished Paper of the SID International Symposium (Society for Information Display), 2014
- Visiting teaching award, Stanford Psychology, 2006
- Winner, “Best static visual illusion,” at European Conference on Visual Perception, 2005
- Student travel award, Vision Sciences Society Annual Conference, 2005
- Funded fellow, Dartmouth Summer Institute for Cognitive Neuroscience, 2004
- UC Davis Center for Mind and Brain Conference Fellowship, 2004
- Angus MacDonald Award for Excellence in Undergraduate Teaching, MIT, 2003
- Marjorie & Gerald Burnett Fellowship, MIT, 2002

- Master's Student Research Award, City College of New York, 2001

### **Professional Organizations**

- Vision Sciences Society (since 2002)
- Society for Neuroscience (since 2008)