

Anna Kosovicheva
Department of Psychology
University of Toronto Mississauga
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PROFESSIONAL APPOINTMENTS

- 2021 - Assistant Professor, Department of Psychology
Contractually Limited Term Appointment
University of Toronto Mississauga – Mississauga, ON, Canada
- 2015 - 2020 Postdoctoral Researcher, Translational Vision Lab
PI: Dr. Peter Bex
Psychology Department, Northeastern University – Boston, MA

EDUCATION

- 2015 University of California, Berkeley, Ph.D., Psychology
Cognition, Brain, and Behavior Program
Advisor: Dr. David Whitney
Dissertation: *The Effects of Motion on Position Representations for Perception and Action*
- 2009 University of California, Berkeley, B.A., Psychology, Highest Honors

RESEARCH INTERESTS

Visual perception: individual differences, localization, eye movements, spatial and binocular vision, digital readability, translational vision science

RESEARCH GRANTS AND OTHER FUNDING

Funded (* indicates primary/lead investigator):

- 2024 * Natural Sciences and Engineering Research Council (NSERC) – Research Tools and Instruments Grant: “A high-speed 3D projector system for fundamental and applied research in perception and cognition”
\$66,266 CAD
- 2024 * Experiential Learning Development Grant, University of Toronto Mississauga
"Engaging students with perception research through a hands-on eye tracking lab"
\$4,623 CAD
- 2023 - Social Sciences and Humanities Research Council (SSHRC) Insight Grant (Co-Investigator)
“Improving readability in the digital age: Optimizing variable fonts for individual readers”
\$302,875 CAD (\$60,575 CAD annually)

- 2022 - * Natural Sciences and Engineering Research Council (NSERC) Discovery Grant
“Mechanisms of spatial localization in human vision”
\$145,000 CAD (\$29,000 CAD annually)
- 2022 * Natural Sciences and Engineering Research Council (NSERC) Discovery Launch
Supplement
\$12,500 CAD
- 2022 Adobe Research Award, Virtual Reading Laboratory Project
\$94,750 CAD gift award to APPLY Lab (Co-I with Benjamin Wolfe)
- 2021 * Bridge funding program, Office of the Vice-Principal, Research, University of Toronto
Mississauga, \$25,000 CAD
- 2018 - 2020 * Ruth L. Kirschstein Postdoctoral Individual National Research Service Award (NRSA)
“Oculomotor deficits and plasticity across gaze posture in strabismus”
National Institutes of Health (F32 EY028814), \$188,579 (USD)
- 2011 - 2014 * Graduate Research Fellowship
National Science Foundation (NSF-GRFP), \$32,000 (USD) annually and tuition

AWARDS AND HONORS

- 2021 Fellow of the Psychonomic Society
- 2020 Elsevier/Vision Research Travel Award, V-VSS Meeting
- 2017 Travel Award, ARVO Meeting, National Eye Institute
- 2015 Travel Award, Norman Henry Anderson Fund, Psychology Department, UC Berkeley
- 2013, 2014 Graduate Division Travel Grant, UC Berkeley
- 2012 Abigail Reynolds Hodgen Publication Fund, Social Sciences Division, UC Berkeley
- 2009 Highest Distinction in General Scholarship, UC Berkeley
- 2009 Highest Honors in Psychology, UC Berkeley
- 2008 Katherine Craig Swan Undergraduate Research Award, UC Berkeley

PUBLICATIONS

(underlined names denote students/postdocs mentored):

Manuscripts in Preparation:

28. Simpson, D., Wolfe, B., & **Kosovicheva, A.** (In preparation). Individual differences in gaze behavior: Comparing high-level and sensory contributions.

Manuscripts Submitted & In Revision:

27. Guidi, S., **Kosovicheva, A.**, & Wolfe, B. (In Revision). Seeing the truck but missing the cyclist: Effects of blur on duration thresholds for road hazard detection.

Published & Forthcoming Papers:

26. Wiecek, E., **Kosovicheva, A.**, Ahmed, Z., Nabasaliza, A., Kazlas, M., Chan, K., Hunter, D. G., & Bex, P. J. (In press). Peripheral Binocular Imbalance in Anisometric and Strabismic Amblyopes.
25. Song, J., **Kosovicheva, A.**, & Wolfe, B. (2023). Road Hazard Stimuli: Annotated naturalistic road videos for studying hazard and scene perception. *Behavior Research Methods*.
24. Haseeb, Z., Wolfe, B., & **Kosovicheva, A.** (2023). Spatial variability in localization biases predicts crowding performance. *Journal of Vision, 23(7)*, 1-11.
23. **Kosovicheva, A.**, Wolfe, J. M., & Wolfe, B. (2022). Taking prevalence effects on the road: Rare hazards are often missed. *Psychonomic Bulletin & Review, 30(1)*, 212-223.
22. Wolfe, J. M., **Kosovicheva, A.**, & Wolfe, B. (2022). Normal Blindness: When We Look But Fail To See. *Trends in Cognitive Sciences, 26(9)*, 809-819.
21. Wolfe, B., **Kosovicheva, A.**, Stent, S., & Rosenholtz, R. (2021). Effects of temporal and spatiotemporal cues on detection of dynamic road hazards. *Cognitive Research: Principles and Implications, 6(1)*, 80.
20. **Kosovicheva, A.**, & Bex, P. J. (2021). Gravitational effects of scene information in object localization. *Scientific Reports, 11*, 11520, 1-14.
19. Caoli, A., Sabatini, S., Gibaldi, A., Maiello, G., **Kosovicheva, A.**, & Bex, P. J. (2020). A dichoptic feedback-based oculomotor training method to manipulate interocular alignment. *Scientific Reports, 10*, 15634, 1-13.
18. **Kosovicheva, A.** & Bex, P. J. (2020). Perceptual effects of unequal saccadic adaptation produced by a dichoptic step. *Journal of Vision, 20(5):7*, 1-21.
17. **Kosovicheva, A.**, Alaoui-Soce, A., & Wolfe, J. M. (2020). Looking ahead: When do you find the next item in foraging visual search? *Journal of Vision, 20(2):3*, 1–24.
16. **Kosovicheva, A.**, & Bex, P. J. (2020). What color was it? A psychophysical paradigm for tracking subjective progress in continuous tasks. *Perception, 49(1)*, 21–38.
15. **Kosovicheva, A.**, Ferreira, A., Vera-Diaz, F. A., & Bex, P. J. (2019). Effects of temporal frequency on binocular deficits in amblyopia. *Vision Research, 163*, 52-62.
14. Wolfe, B., Sawyer, B. D., **Kosovicheva, A.**, Reimer, B., & Rosenholtz, R. (2019). Detection of brake lights while distracted: Separating peripheral vision from cognitive load. *Attention, Perception, & Psychophysics, 81*, 2798–2813.
13. Wolfe, B., Fridman, L., **Kosovicheva, A.**, Seppelt, B., Mehler, B., Reimer, B., & Rosenholtz, R. (2019). Predicting road scenes from brief views of driving video. *Journal of Vision, 19(5):8*, 1–14.
12. Vera-Diaz, F. A., Bex, P. J., Ferreira, A., & **Kosovicheva, A.** (2018). Binocular temporal visual processing in myopia. *Journal of Vision, 18(11)*, 1-12.

11. Manassi, M., Liberman, A., **Kosovicheva, A.**, Zhang, K., & Whitney, D. (2018). Serial dependence in position occurs at the time of perception. *Psychonomic Bulletin & Review*, 25(6), 2245-2253.
10. Chen, Z.*, **Kosovicheva, A.***, Wolfe, B. A., Cavanagh, P., Gorea, A., & Whitney, D. (2018). Unifying visual space across the left and right hemifields. *Psychological Science*, 29(3), 356 – 369. (*co-first authors)
9. **Kosovicheva, A.**, & Whitney, D. (2017). Stable individual signatures in object localization. *Current Biology*, 27(14), R700-R701.
8. Wolfe, B., Fridman, L., **Kosovicheva, A.**, Seppelt, B., Mehler, B., Reimer, B. (2017). Perceiving the roadway in the blink of an eye – Rapid perception of the road environment and prediction of events. *Conference Proceedings, Driving Assessment 2017*.
7. Yamanashi Leib, A., **Kosovicheva, A.**, & Whitney, D. (2016). Fast ensemble representations for abstract visual impressions. *Nature Communications*, 7, 13186.
6. Wolfe, B., Dobres, J., **Kosovicheva, A.**, Rosenholtz, R., & Reimer, B. (2016). Age-related differences in the legibility of degraded text. *Cognitive Research: Principles and Implications*, 1(1), 22.
5. Wolfe, B. A., **Kosovicheva, A. A.**, Yamanashi Leib, A., Wood, K., & Whitney, D. (2015). Foveal input is not required for perception of crowd facial expression. *Journal of Vision*, 15(4), 1-13.
4. **Kosovicheva, A. A.**, Wolfe, B. A., & Whitney, D. (2014). Visual motion shifts saccade targets. *Attention, Perception, & Psychophysics*, 76(6), 1778-1788.
3. **Kosovicheva, A. A.**, Sheremata, S. L., Rokem, A., Landau, A. N. & Silver, M. A. (2012). Cholinergic enhancement reduces orientation-specific surround suppression but not visual crowding. *Frontiers in Behavioral Neuroscience*, 6(61), 1-11.
2. **Kosovicheva, A. A.**, Maus, G. W., Anstis, S. Cavanagh, P., Tse, P. U., & Whitney, D. (2012). The motion-induced shift in the perceived location of a grating also shifts its aftereffect. *Journal of Vision*, 12(8), 1-14.
1. **Kosovicheva, A. A.**, Fortenbaugh, F. C., & Robertson, L. C. (2010). Where does attention go when it moves?: Spatial properties and locus of the attentional repulsion effect. *Journal of Vision*, 10(12), 1–13.

CONFERENCE PRESENTATIONS (underlined names denote students/postdocs mentored):

58. Gaier, E. D., Wiecek, E. K., Ahmed, Z., Bex, P. J., & **Kosovicheva, A.** (Submitted). Perceptual interactions of interocular temporal phase and contrast disparities in amblyopia. *Abstract submitted for the Association for Research in Vision and Ophthalmology (ARVO) Meeting*.
57. Haseeb, Z., & **Kosovicheva, A.** (Submitted). A continuous tracking measure of orientation sensitivity and bias in the visual periphery. *Abstract submitted for the Vision Sciences Society Annual Meeting*.
56. Guidi, S., Haseeb, Z., **Kosovicheva, A.**, & Wolfe, B. (Submitted). The effects of variable fonts on sentence-level reading. *Abstract submitted for the Vision Sciences Society Annual Meeting*.

55. Chua, A., & **Kosovicheva, A.** (Submitted). Follow the Dot: Do we have implicit awareness of our own eye movements? *Abstract submitted for the Vision Sciences Society Annual Meeting.*
54. Küçük, K. M., Rashid, M., Penkova, V., Giroux, A., Atilgan, N., Wallace, S., Berlow, S., **Kosovicheva, A.**, Day, S., & Sawyer, B. D. (Submitted). A psychophysical approach for investigating format readability online. *Abstract submitted for the Vision Sciences Society Annual Meeting.*
53. Patel, K., Haseeb, Z., Wolfe, B., & **Kosovicheva, A.** (2023) Effects of different highlighting styles on reading speed and comprehension. *Poster presented at the York University New VISTAs in Vision Research Conference.*
52. Haseeb, Z., Guidi, S., **Kosovicheva, A.**, Wolfe, B. (2023) Stimuli for sentence readability – a new, validated corpus for studies of digital reading. *Poster presented at the York University New VISTAs in Vision Research Conference.*
51. Simpson, D., Wolfe, J. M., & **Kosovicheva, A.** (2023). What can 9 million trials tell us about memorability and rejectability of items in an online game? *Talk presented at the Object Perception, Attention, and Memory (OPAM) meeting.*
50. Simpson, D., Wolfe, B., & **Kosovicheva, A.** (2023). Individual differences in gaze behavior: Comparing high-level and sensory contributions. *Poster presented at the Vision Sciences Society Annual Meeting.*
49. Gillies, G., Wolfe, B., & **Kosovicheva, A.** (2023). Close, but not a T: Feedback, not similarity search, reduces the low-prevalence effect. *Poster presented at the Vision Sciences Society Annual Meeting.*
48. Guidi, S., Haseeb, Z., **Kosovicheva, A.**, & Wolfe, B. (2023). Psychophysics of variable fonts: Speed and comprehension measures. *Poster presented at the Vision Sciences Society Annual Meeting.*
47. Haseeb, Z., Guidi, S., Wolfe, B., & **Kosovicheva, A.** (2023). Psychophysics of variable fonts: Gaze measures of reading efficiency. *Poster presented at the Vision Sciences Society Annual Meeting.*
46. Wolfe, B., Gonzales, C., & **Kosovicheva, A.** (2023). Where was the moose? The time course of dynamic road scene perception. *Poster presented at the Vision Sciences Society Annual Meeting.*
45. Song, J., Chua, A. M., Patil, M., **Kosovicheva, A.**, & Wolfe, B. (2023). When should you warn the driver about the moose?: The effect of auditory cue timing on hazard localization in naturalistic videos. *Poster presented at the Vision Sciences Society Annual Meeting.*
44. Song, J., **Kosovicheva, A.**, & Wolfe, B. (2022). You'll still miss the moose on the road: Rare hazards are frequently missed even when they are perceived as highly dangerous. *Talk presented at the Object Perception Attention and Memory (OPAM) meeting.*
43. Wiecek, E., Nabasaliza, A., Ahmed, Z., Chan, K., **Kosovicheva, A.**, Kazlas, M., Hunter, D. G., & Bex, P. J. (2022). Differences in peripheral binocular imbalance in strabismic young adults with or without amblyopia. *Talk presented at the American Academy of Optometry (AAO) Meeting.*
42. Haseeb, Z., Wolfe, B., & **Kosovicheva, A.** (2022). Spatial Heterogeneity in Localization Biases Predicts Crowding Performance. *Poster presented at the Vision Sciences Society (VSS) Annual Meeting.*

41. **Kosovicheva, A.**, Wolfe, J. M., & Wolfe, B. (2022). The Moose Came Out of Nowhere: Low Prevalence Effects in Road Hazard Detection. *Talk presented at the Vision Sciences Society (VSS) Annual Meeting.*
40. Guidi, S., Ghuman, C., **Kosovicheva, A.**, & Wolfe, B. (2022). Effects of Blur on Duration Thresholds for Road Hazard Detection. *Poster presented at the Vision Sciences Society (VSS) Annual Meeting.*
39. Simpson, D., Fukuda, K., & **Kosovicheva, A.** (2022) Crowding biases categorical judgments for complex stimuli. *Poster presented at the Virtual Vision Sciences Society (V-VSS) Annual Meeting (Just-in-Time Poster Session for Undergraduate Students).*
38. **Kosovicheva, A.**, Kanda, S., Wolfe, J. M., & Wolfe, B. (2021) Taking prevalence effects on the road: Rare hazards are often missed. *Poster presented at the Psychonomic Society Annual Meeting.*
37. Kanda, S., **Kosovicheva, A.**, Wolfe, B. A., & Wolfe, J. M. (2021). Prevalence effects on the road: Rare hazards are often missed. *Poster presented at the Virtual Vision Sciences Society (V-VSS) Annual Meeting (Just-in-Time Poster Session for Undergraduate Students).*
36. Wolfe, B. A., **Kosovicheva, A.**, Stent, S., & Rosenholtz, R. (2021). Attentional cueing in the world: temporal and spatiotemporal cues for road hazards. *Poster presented at the Virtual Vision Sciences Society (V-VSS) Annual Meeting.*
35. **Kosovicheva, A.**, & Bex, P. J. (2021). Microsaccades before response initiation reflect angular errors in a peripheral localization task. *Poster presented at the Virtual Vision Sciences Society (V-VSS) Annual Meeting.*
34. Wiecek, E., Nabasaliza, A., **Kosovicheva, A.**, Kazlas, M., Hunter, D. G., & Bex, P. J. (2020). Differences in contrast sensitivity and binocular imbalance across the visual field in children with strabismus and anisometropic amblyopia. *Online poster presented at the American Academy of Optometry meeting.*
33. **Kosovicheva, A.**, Wiecek, E., Kazlas, M., Hunter, D. G., & Bex, P. J. (2020). Modulation of stereopsis and sensory eye dominance by gaze direction in strabismus. *Online video presentation for the Association for Research in Vision and Ophthalmology (ARVO) Meeting.*
32. Wiecek, E., **Kosovicheva, A.**, Kazlas, M., Bex, P. J., Hunter, D. G. (2020). Decreased peripheral stereoacuity and ocular dominance in anisometropic amblyopia, strabismic, and normally-sighted young adults. *Online video presentation for the ARVO Annual Meeting.*
31. **Kosovicheva, A.**, Sridhar, K., & Bex, P. J. (2020). Image predictors of visual localization in natural scenes. *Poster presented at the Virtual Vision Sciences Society (V-VSS) Annual Meeting.*
30. **Kosovicheva, A.**, & Wolfe, J. M. (2019). When do you find the next item?: Using occluders to uncover the time course of visual foraging. *Poster presented at the VSS Annual Meeting.*
29. Alberti, C. F., **Kosovicheva, A.**, & Bex, P. J. (2019). Measuring the field of contrast sensitivity via saccadic foraging. *Poster presented at the VSS Annual Meeting.*
28. **Kosovicheva, A.**, Hawladar, O., & Bex, P. J. (2018). Localization errors following saccadic adaptation to a dichoptic step. *Poster presented at the VSS Annual Meeting.*

27. Vera-Diaz, F. A., **Kosovicheva, A.**, Maiello, G. A., Ferreira, A., Walker, L., & Bex, P. J. (2017). Binocularity in myopia. *Poster presented at the International Myopia Conference.*
26. Hawladar, O.*, Bex, P. J., & **Kosovicheva, A.** (2017). Sensory effects of dichoptic saccadic adaptation. *Paper presented at the Newfoundland Electrical and Computer Engineering Conference (NECEC).* (*Best Paper Award in Women in Engineering)
25. Rosenholtz, R., Wolfe, B., Sawyer, B., **Kosovicheva, A.**, & Reimer, B. (2017). Perceptual and attentional factors in detection of driving-relevant visual events. *Talk presented at the VSS Annual Meeting.*
24. **Kosovicheva, A.**, Kazlas, M., Hunter, D. G., & Bex, P. (2017). What can we learn about strabismus from a 90 second gaze recording?: Rapid evaluation of oculomotor deficits in strabismus. *Poster presented at the ARVO Annual Meeting.*
23. Ferreira, A., **Kosovicheva, A.**, Bex, P. J., & Vera-Diaz, F. A. (2017). Temporal contrast sensitivity in myopia. *Poster presented at the ARVO Annual Meeting.*
22. Bex, P. J., **Kosovicheva, A.**, Ferreira, A., & Vera-Diaz, F. A. (2017). Effects of temporal frequency on binocularity and contrast sensitivity in amblyopia. *Poster presented at the VSS Annual Meeting.*
21. **Kosovicheva, A.**, Feffer, J., Alaoui Soce, A., Cain, M. S., & Wolfe, J. M. (2017). When does visual search move on?: Using the color wheel to measure the dynamics of foraging search. *Poster presented at the VSS Annual Meeting.*
20. Vera-Diaz, F. A., **Kosovicheva, A.**, Ferreira, A., & Bex, P. J. (2017). Effect of temporal vision on binocularity in ametropia. *Poster presented at the ARVO Annual Meeting.*
19. Wolfe, B., Fridman, L., **Kosovicheva, A.**, Reimer, B., & Rosenholtz, R. (2017). Seeing the road in the blink of an eye: Rapid perception of the driver's visual environment. *Poster presented at the VSS Annual Meeting.*
18. **Kosovicheva, A.**, & Bex, P. (2016). Reading rainbows: Measuring the dynamics of word processing. *Talk presented at the VSS Annual Meeting.*
17. Wolfe, B., Dobres, J., **Kosovicheva, A.**, Rosenholtz, R., & Reimer, B. (2016). Reduction in legibility with degradation in older and younger observers. *Poster presented at the VSS Annual Meeting.*
16. **Kosovicheva, A. A.**, Wolfe, B. A., Cavanagh, P., Gorea, A., & Whitney, D. (2015). Dynamic recalibration of perceived space across the visual hemifields. *Poster presented at the VSS Annual Meeting.*
15. Yamanashi Leib, A., **Kosovicheva, A. A.**, & Whitney, D. (2015). Perceiving the lifelikeness of crowds: summary statistical representations of abstract visual dimensions. *Poster presented at the VSS Annual Meeting.*
14. Wood, K., Wolfe, B. A., **Kosovicheva, A. A.**, & Whitney, D. (2015). Speeded breakthrough of faces in interocular suppression requires configural information. *Poster presented at the VSS Annual Meeting.*

13. **Kosovicheva, A. A.** & Whitney, D. (2014). Stable individual distortions in the perceived locations of static stimuli. *Poster presented at the VSS Annual Meeting.*
12. Yamanashi Leib, A., Bai, Y., **Kosovicheva, A. A.**, Chang, K., Puri, A., Robertson, L., & Whitney, D. (2014). Ensemble perception of multiple crowd characteristics. *Poster presented at the VSS Annual Meeting.*
11. Liberman, A., **Kosovicheva, A. A.**, & Whitney, D. (2014). Serial dependence of position perception. *Poster presented at the VSS Annual Meeting.*
10. Wood, K., Wolfe, B. A., **Kosovicheva, A. A.**, Yamanashi Leib, A., & Whitney, D. (2014). Foveal input is not required for ensemble coding of emotional faces. *Poster presented at the VSS Annual Meeting.*
9. **Kosovicheva, A. A.**, & Whitney, D. (2013). A meridional anisotropy of the flash-drag effect. *Poster presented at the VSS Annual Meeting.*
8. Wolfe, B. A., **Kosovicheva, A. A.**, Yamanashi Leib, A., & Whitney, D. (2013). Beyond fixation: Ensemble coding and eye movements. *Poster presented at the VSS Annual Meeting.*
7. **Kosovicheva, A. A.**, Wolfe, B., & Whitney, D. (2012). Effects of motion-induced mislocalizations on saccade landing position. *Talk presented at the VSS Annual Meeting.*
6. **Kosovicheva, A. A.**, Maus, G. W., Anstis, S., Cavanagh, P., Tse, P. U., & Whitney, D. (2011). The motion-induced shift in the perceived location of a grating also shifts its aftereffect. *Poster presented at VSS and at the Bay Area Vision Research Day.*
5. Silver, M.A., **Kosovicheva, A. A.**, & Landau, A. N. (2011). ERP correlates of orientation-specific surround suppression. *Poster presented at the VSS Annual Meeting.*
4. **Kosovicheva, A. A.**, Landau, A. N., & Silver, M. A. (2010). Interactions of sustained spatial attention and surround suppression: an EEG study. *Poster presented at the Society for Neuroscience Meeting.*
3. **Kosovicheva, A. A.**, Landau, A. N., & Silver, M. A. (2010). Cholinergic modulation of EEG activity during sustained visual stimulation. *Poster presented at the UC Berkeley Annual Neuroscience Retreat.*
2. **Kosovicheva, A. A.**, Fortenbaugh, F. C., & Robertson, L. C. (2010). Spatial properties of the attentional repulsion effect. *Poster presented at the VSS Annual Meeting.*
1. Landau, A. N., **Kosovicheva, A. A.**, & Silver, M. A. (2010). Interactions of sustained spatial attention and surround suppression: an SSVEP study. *Poster presented at the VSS Annual Meeting.*

Other Academic Presentations:

Vision Sciences Society (VSS) Demo Night:

2014 Kosovicheva, A., Wolfe, B., Chaney, W., Yamanashi Leib, A., Liberman, A. "Strobwheel"

2012 Kosovicheva, A., Wolfe, B. "An Aftereffect Based on Texture Element Ratios."

RESEARCH SEMINARS

- 2024 Department of Psychology, Queen's University, Kingston, ON (March 15, 2024)
- 2023 Centre for Vision Research Seminar, York University, Toronto, ON (Sep 22, 2023)
- 2022 Department of Psychology, University of New Hampshire, Durham, NH (Dec 13, 2022)
- 2021 Ebbinghaus Empire Talk Series, University of Toronto, Canada (Dec 8, 2021)– *delivered remotely*
- 2020 Perception Summer Seminar Series, UC Berkeley, CA (June 29, 2020) – *delivered remotely*
- 2020 School of Optometry, Indiana University, Bloomington, IN (March 30, 2020) – *delivered remotely*
- 2020 Department of Psychology, University of Nevada, Reno, NV (Feb 27, 2020)
- 2020 Department of Psychology, Northeastern University, Boston, MA (Jan 30, 2020)
- 2020 Department of Psychology, University of Central Florida, Orlando, FL (Jan 23, 2020)
- 2019 Department of Psychology, North Carolina State University, Raleigh, NC (Nov 7, 2019)
- 2019 Research Lecture Series, New England College of Optometry, Boston, MA (Nov 5, 2019)
- 2019 Visual Attention Lab Seminar, Brigham and Women's Hospital, Boston, MA (Oct 15, 2019)
- 2018 Department of Psychology, Rochester Institute of Technology, Rochester, NY (Dec 5, 2018)
- 2016 Research Lecture Series, New England College of Optometry, Boston, MA (Nov 29, 2016)
- 2016 Perception and Action Seminar, Brown University, Providence, RI (April 14, 2016)

GUEST LECTURES IN COURSES

- 2020 Computational Vision, Boston University, Boston, MA (Oct 7 & Oct 13, 2020) – *delivered remotely*
- 2019 Undergraduate seminar in Perception, Northeastern University, Boston, MA (Nov 14, 2019)
- 2019 Undergraduate seminar in Perception, Northeastern University, Boston, MA (Feb 11, 2019)
- 2019 Psychology at Northeastern, Northeastern University, Boston, MA (Jan 31, 2019)
- 2018 Psychology at Northeastern, Northeastern University, Boston, MA (Oct 1, 2018)
- 2016 Undergraduate seminar in Perception, Northeastern University, Boston, MA (Nov 3, 2016)
- 2016 Graduate seminar in Perception, Northeastern University, Boston, MA (March 1 & 15, 2016)

OTHER APPOINTMENTS & AFFILIATIONS

- 2023 - Adjunct Faculty Member, Centre for Vision Research, York University, Toronto
- 2023 - Member, Data Sciences Institute, University of Toronto
- 2022 - Associate Member, The Readability Consortium
- 2021 - Associate Member, School of Graduate Studies, University of Toronto
- 2015 - 2020 Associated Research Personnel
Department of Ophthalmology, Boston Children's Hospital

OTHER RESEARCH EXPERIENCE

- 2009 - 2010 Staff Research Associate
Silver Lab, Helen Wills Neuroscience Institute & School of Optometry, UC Berkeley
PI: Dr. Michael Silver

2008 - 2009 Research Assistant
Cognitive Neuropsychology Lab, Psychology Department, UC Berkeley
PI: Dr. Lynn Robertson

TEACHING EXPERIENCE

Instructor (*fully online, †mixed online/in-person):

University of Toronto Mississauga:

- 2023 - Perception Laboratory
Developed as a new course and added to Psychology curriculum
Semesters: Winter 2023, Winter 2024
Composite evaluation score (5 = highest; 1 = lowest): Winter 2023: 5.0
- 2022 - Sensation & Perception: Where the World Meets the Brain
Semesters: †Winter 2022, Winter 2023, Winter 2024
Composite evaluation scores (5 = highest; 1 = lowest): †Winter 2022: 4.6, Winter 2023: 4.6
- 2022 - Special Topics in Cognition: Visual Cognition
Semesters: †Winter 2022, Fall 2022, Fall 2023
Composite evaluation scores (5 = highest; 1 = lowest): †Winter 2022: 4.9, Fall 2022: 4.9, Fall 2023: 5.0
- 2021 Human Neuropsychology
Semesters: *Summer 2021, *Fall 2021
Composite evaluation scores (5 = highest; 1 = lowest): *Summer 2021: 4.5, *Fall 2021: 4.5

Northeastern University:

- 2017 Sensation & Perception
Fall 2017 Semester
Instructor effectiveness rating (5 = highest; 1 = lowest): 4.45

Other teaching experience:

- 2010, 2015 Graduate student instructor (GSI) for Perception, Psychology Department, UC Berkeley
Taught classroom discussion sections (Spring 2010 & Spring 2015 Semesters)
Instructor effectiveness rating (7 = highest; 1 = lowest): 6.33

MENTORSHIP & RESEARCH SUPERVISION

Postdoctoral Fellows

- 2022 - Jiali Song – University of Toronto Mississauga
2023 - 2024 Khushi Patel – University of Toronto Mississauga

Ph.D. Students

- 2023 - Zainab Haseeb, University of Toronto

2021 - 2022 Greer Gillies, University of Toronto (External project supervisor)

Undergraduates & Recent Graduates (* denotes honors thesis supervision)

University of Toronto Mississauga:

Anureet Jeji, Avery Chua, Chandandeep Ghuman, Cristeidy Gonzales, Silvia Guidi, Zainab Haseeb*, Yasmeen Hmaidan, Anureet Jeji, Simran Kanda, Talar Kevorkian, Zoey Khaled, Muhammad Khan, Brooke Lim, Meghna Patil, Sanaullah Pirzada, Mia Romano, Dyllan Simpson, Dorsa Tafazzoli

Northeastern University:

Leah Brodie, Kelly Choi, Katja Kelleher

Harvard University:

Jungyeon Park

UC Berkeley:

Andrew Chang, Valentina Volk*, Katherine Wood*

High school students:

Support, Engage, Experience (SEE) University of Toronto Mississauga Co-op program:
Onyinyechi Oluikpe, Nasteha Omar

Research Science Institute (RSI) summer enrichment program:
Joseph Feffer, Oishi Hawlader, Erin Smith, Koushik Sridhar

REVIEWING EXPERIENCE

Manuscript Review (Journals):

Applied Cognitive Psychology
Attention, Perception, & Psychophysics
Cognition and Emotion
Cognitive Science
Communications Biology
eLife
Emotion
Eye and Vision
Frontiers in Medicine
iScience
Journal of Experimental Psychology: General

Journal of Experimental Psychology: HPP
Journal of Vision
Ophthalmic & Physiological Optics
Optometry and Vision Science
Perception / i-Perception
PLOS One
PNAS
Quarterly Journal of Experimental Psychology
Vision
Vision Research
Visual Cognition

Abstract & Paper Review (Conferences):

European Conference on Visual Perception (ECVP)
IEEE Information Visualization Conference (InfoVis)

Textbook Review (Publisher):

W. W. Norton & Company

Editorial Work

Guest Editor, Special Issue of *Visual Cognition*, “Teaching Sensation & Perception”

SCIENCE COMMUNICATION & OUTREACH ACTIVITIES

- 2021 - Digital Associate Editor, Psychonomic Society
Member of the digital content team for the Psychonomic Society, which creates and produces public-facing digital content for the Society (blog posts and podcasts).
- 2010 - 2015 Whitney Lab Outreach Program
Outreach visits to underserved K-12 schools in the San Francisco Bay Area twice a year, with presentations on topics in visual perception (color, motion, faces, depth). Developed visual illusion demonstrations for students.

OTHER SERVICE

- 2023 - Coordinator, UTM Psychology Department Colloquia
2023 - Vision Sciences Society Demo Night Committee
2022 - Baycrest/U of T Postdoc Mentorship Program
2022 - UTM Psychology Department Undergraduate Curriculum Committee
2021 Organizer, UTM Psychology “Careers in Cognitive Psychology” Panel Series, Fall 2021

MEMBERSHIPS HELD

Association for Psychological Science (APS)
Association for Research in Vision and Ophthalmology (ARVO)
Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS)
Cognitive Science Society (CSS)
Psychonomic Society
Society for Neuroscience (SfN)
Vision Sciences Society (VSS)