

## **CURRICULUM VITAE**

### **JOO-HYUN SONG**

Associate Professor

Department of Cognitive, Linguistics and Psychological Sciences, Brown University

#### **1. EDUCATION:**

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| 1998 | B.A. in Psychology, Seoul National University, Seoul, Korea<br><i>Summa Cum Laude</i>  |
| 2000 | M.A. in Psychology, Seoul National University, Seoul, Korea<br>Advisor: Prof. Jung-Oh Kim  |
| 2006 | Ph.D. in Psychology, Harvard University, MA<br>Advisor: Prof. Ken Nakayama<br><u>Thesis</u> : Characteristics of visually-guided motor actions in selection tasks. |

#### **2. PROFESSIONAL APPOINTMENTS:**

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|--------------|---|
| 2000         | Lecturer<br>Hallym University, Department of Psychology, Choonchun, Korea   |
| 2006-2010    | Postdoctoral Fellow<br>The Smith-Kettlewell Eye Research Institute, San Francisco, CA<br>Advisor: Dr. Robert McPeck                               |
| 2010-2018    | Assistant Professor<br>Department of Cognitive, Linguistics and Psychological Sciences<br>Brown University, Providence, RI                        |
| (2011-2012   | <i>Medical Leave)</i>   |
| 2018-present | Associate Professor ( <i>with Tenure</i> )<br>Department of Cognitive, Linguistics and Psychological Sciences<br>Brown University, Providence, RI |
| 2010-present | Affiliated faculty (Trainer)<br>Department of Neuroscience<br>Brown University, Providence, RI  |

#### **3. ACADEMIC HONORS, FELLOWSHIPS & AWARDS:**

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|-----------|---|
| 1994-1998 | Dean's list, Seoul National University, Seoul, Korea<br>University fellowship award   |
| 1998      | Walden Award: <i>Best B.A. Thesis of The Year</i><br>Seoul National University, Department of Psychology, Seoul, Korea                    |
| 1998      | University President's Award for Graduation<br>Valedictorian of the College of Social Sciences<br>Seoul National University, Seoul, Korea |
| 2001-2006 | Fellow, Korea Foundation for Advanced Studies, Seoul, Korea   |

	5 year fellowship for Ph.D. abroad (full tuition + stipends)
2004	Certificate of Distinction in Teaching, Harvard University, Cambridge, MA : <i>Teaching award based on anonymous student evaluation</i>
2004	Graduate Society Summer Fellowship Harvard University, Cambridge, MA.
2006	Harvard Merit Fellowship, Harvard University, Cambridge, MA.
2006	Fellowship Award for APA Advanced Training Institute in Functional Magnetic Resonance Imaging at MGH, Charlestown, MA
2006	Fellowship Award for Summer Institute in Cognitive Neuroscience at Dartmouth College, Hanover, NH
2007	R.C. Atkinson Fellowship Award, Smith-Kettlewell Eye Research Institute, San Francisco, CA : <i>Full year post-doc fellowship</i>
2009	Society for the Neural Control of Movement Post-Doc Scholarship : <i>Travel award</i>
2011	Richard B. Salomon Faculty Research Award, Brown University
2016	NSF CAREER Award
2016	The Psychonomics Society, fellow
2018	The Psychonomics Society: 2018 Leading-Edge Workshop Initiative award

#### 4. REFERRED JOURNAL ARTICLES (#Undergraduate, §Graduate & \* Post-doc/Research associate co-authors)

- Jiang Y, **Song J-H** (2005) Spatial context learning in visual search and change detection. *Perception & Psychophysics*, 67(7), 128-139.
- **Song J-H**, Jiang Y (2005) Connecting the past with the present: How do humans match an incoming visual display with visual memory? *Journal of Vision*, 5(4), 322-330.
- Jiang Y, **Song J-H** (2005) Hyper-specificity in visual implicit learning: Learning of spatial layout is contingent on item identity. *Journal of Experimental Psychology: Human Perception & Performance*, 31(6), 1439-1448.
- Jiang Y, **Song J-H**, Rigas A (2005) High-capacity spatial contextual memory. *Psychonomic Bulletin & Review*, 12(3), 524-529.
- **Song J-H**, Jiang YV (2006) Motion tracking mediates capacity allocation in visual working memory. *Psychonomic Bulletin & Review*, 13(6), 1011-1015.
- **Song J-H**, Jiang Y (2006) Visual working memory for simple and complex features: An fMRI study. *NeuroImage*, 30(3), 963-972.
- **Song J-H**, Nakayama K (2006) Role of focal attention on latencies and trajectories of visually guided manual pointing. *Journal of Vision*, 6(9), 982-995.
- **Song J-H**, Nakayama K (2007) Fixation offset facilitates saccades and manual reaching for single but not multiple target displays. *Experimental Brain Research*, 177(2), 223-232.

- **Song J-H**, Nakayama K (2007) Automatic adjustment of visuomotor readiness. *Journal of Vision*, 7(5), 1-9.
- Finkbeiner M, **Song J-H**, Nakayama K, Caramazza A (2008) Engaging the motor system with masked orthographic primes: A kinematic analysis. *Visual Cognition*, 16, 11-22.
- **Song J-H**, Nakayama K (2008) Numeric comparison in a visually-guided manual reaching task. *Cognition*, 106, 994-1003.
- **Song J-H**, Nakayama K (2008) Target selection in visual search as revealed by movement trajectories. *Vision Research*, 48, 853-861.
- **Song J-H**, Takahashi N, McPeck RM (2008) Target selection for visually-guided reaching in macaque. *Journal of Neurophysiology*, 99, 14-24.
- **Song J-H**, McPeck RM (2009) Eye-hand coordination during target selection in a pop-out visual search. *Journal of Neurophysiology*, 102, 2681-2692.
- **Song J-H**, Nakayama K (2009) Hidden cognitive states revealed in choice reaching tasks. *Trends in Cognitive Sciences*, 13, 360-366.
- **Song J-H**, McPeck RM (2010) Roles of narrow-and broad-spiking dorsal premotor area neurons in reach target selection and movement production. *Journal of Neurophysiology*, 103, 2124-2138.
- Khan AZ, **Song J-H**, McPeck RM (2011) The eye dominates in guiding attention during simultaneous eye and hand movements. *Journal of Vision*, 11, 1-14.
- **Song J-H**, Rowland J, McPeck RM, Wade AR (2011) Attentional modulation of fMRI responses in human V1 is consistent with distinct spatial maps for chromatically defined orientation and contrast. *Journal of Neuroscience*, 31, 12900-5.
- **Song J-H**, Rafal RD, McPeck RM (2011) Deficits in reach target selection during inactivation of the midbrain superior colliculus. *Proceedings of the National Academy of Sciences U S A*, 20, E1433-40.
- \*Bruggeman H, #Kliman-Silver C, Domini F, **Song J-H** (2013) Dynamic Manipulation generates touch information that can modify vision. *Psychological Science*, 24(6), 1063-1065.
- \*Moher J, **Song J-H** (2013) Context-dependent sequential effects of target selection for action. *Journal of Vision*, 13(8), 1-13.
- **Song J-H**, \*Bédard P (2013) Allocation of attention for dissociated visual and motor goals. *Experimental Brain Research*, 226, 209-19.
- \*Bédard P, **Song J-H** (2013) Attention modulates generalization of visuomotor adaptation. *Journal of Vision*, 13(12), 1-10.
- \*Moher J, **Song J-H** (2014) Perceptual decision processes flexibly adapt to avoid change-of-mind motor costs. *Journal of Vision*, 14(8):1, 1-13.
- \*Moher J, **Song J-H** (2014) Target selection bias transfers across different response actions. *Journal of Experimental Psychology: Human Perception and Performance*, 40(3), 1117-30.
- \*Corbett J, **Song J-H** (2014) Statistical extraction affects visually guided action. *Visual Cognition*, 22(7), 881-895.

- \*Moher J, #Sit J, **Song J-H** (2015) Goal-directed action is automatically biased towards looming motion. *Vision Research*, 113(Pt B):188-97.
- **Song J-H**, \*Bédard P (2015) Paradoxical benefits of diverted attention for visuomotor memory, *Psychological Sciences*, 26(2): 148-58.
- **Song J-H**, McPeck RM (2015) Neural correlates of target selection for reaching movements in superior colliculus. *Journal of Neurophysiology*. 1;113(5):1414-22.
- \*Im YH, \*Bédard P, **Song J-H** (2015) Encoding attentional states during visuomotor adaptation. *Journal of Vision*. 15(8):20, 1-16.
- \*Moher J, §Anderson B, **Song J-H** (2015) Dissociable effects of salience on attention and goal-directed action. *Current Biology*, 25, 1-7.
- \*Moher J, **Song J-H** (2016) Target selection biases from recent experience transfer across effectors. *Attention, Perception & Psychophysics*, 78(2), 415-26.
- §Erb CD, \*Moher J, Sobel DM, **Song J-H** (2016) Reach tracking reveals dissociable processes underlying cognitive control. *Cognition*, 152, 14-26.
- \*McCarthy JD, **Song J-H** (2016) Global attention facilitates the planning, but not execution of goal-directed reaches. *Journal of Vision*, 16(9): 7, 1-16.
- \*Im YH, \*Bédard P, **Song J-H** (2016) Long lasting attentional-context dependent visuomotor memory. *Journal of Experimental Psychology: Human Perception and Performance*, 42(9): 1269-74.
- **Song J-H** (2017) Abandoning and modifying one action plan for alternatives. *Philosophical Transactions of the Royal Society B: Biological Sciences*. 372: 20160195.
- §Gamble C, **Song J-H** (2017) Dynamic modulation of illusory and physical target size on separate and coordinated eye and hand movements. *Journal of Vision*, 17(3):23, 1-23.
- §Yoxon E, §Pacione SM, **Song J-H**, Welsh TN (2017) The action-specific effect of execution on imagination of reciprocal aiming movements. *Human Movement Science*, 54:51-62.
- §Erb CD, \*Moher J, **Song J-H**, Sobel DM (2017) Cognitive control in action: Tracking the dynamics of rule switching in 5- to 8-year-olds and adults. *Cognition*, 164: 153-173
- \*Wang TSL, **Song J-H** (2017) Impaired visuomotor generalization by inconsistent attentional contexts. *Journal of Neurophysiology*, 118(3):1709-1719.

#### Publications after Tenure

- §Erb CD, \*Moher J, **Song J-H**, Sobel DM (2018a) Reach tracking reveals dissociable processes underlying inhibitory control in 5- to 10-year-olds. *Developmental Science*. 21:e12523.
- §Erb CD, \*Moher J, **Song J-H**, Sobel DM (2018b) Reaching behavior reveals numerical distance effects in 5-to 6-year old. *Journal of Numerical Cognition*, 4(2), 286-296.
- **Song J-H** (2019) The role of attention in motor control and learning. *Current Opinion in Psychology*, 29, 261-265.
- §Guo J, **Song J-H** (2019) Action fluency facilitates perceptual discrimination. *Psychological Sciences*, 30(10), 1434-1448.
- Hommel B, Chapman, CS, Cisek P, Neyedli HF, **Song J-H**, Welsh TN (2019). No one knows what attention is. *Attention, Perception, & Psychophysics*, 81 (7), 2288-2303.

- \*Moher J, **Song J-H** (2019) A comparison of simple reach movement measurements across three different devices. *Attention, Perception, & Psychophysics*, 81 (7), 2558-2569.
- Balasubramaniam R, Haegens S, Jazayeri M, Merchant H, Sternad D, **Song J-H** (2021). Neural Encoding and Representation of Time for Sensorimotor Control and Learning. *The Journal of Neuroscience*, 41 (5) 866-872
- Haass-Koffler CL, #Souza RD, §Wilmott JP, Aston ER, & **Song J-H**. (2021). A Combined Alcohol and Smoking Cue-Reactivity Paradigm in People Who Drink Heavily and Smoke Cigarettes: Preliminary Findings. *Alcohol and Alcoholism*, 56(1), 47-56.
- \*Menceloglu M, Suzuki S, **Song J-H** (2021) Revealing the effects of temporal orienting of attention on response conflict using continuous movements. *Attention, Perception, & Psychophysics*, 83(4),1463-1478
- §Gamble C, **Song J-H** (2021) Modulation of visually guided action by the image and familiar sizes of real-world objects. *Journal of Vision*, 21(5), 1-21.
- \*Wang T, #Martinez M, Festa EK, Heindel W, **Song J-H** (2022) Age-related paradoxical enhancement in visuomotor learning by a dual-task. *Scientific Reports*, 1-12.
- §Wilmott JP, \*Mukesh Makwana, **Song J-H** (2022) Target detection and discrimination in pop-out visual search with two targets. *Attention, Perception, & Psychophysics*, 1-15.
- \*Liddy J, \*Im H, **Song J-H** (2022) Inconsistent attentional contexts impair re-learning following gradual visuomotor adaptation. *Journal of Neurophysiology*, 128(3), 527-542.
- \*Menceloglu M, Nakayama K, **Song J-H** (2022) Radial bias alters perceived object orientation. *Psychological Sciences*, 33(12), 2098-2108.
- §Guo, J, **Song J-H** (2023). Reciprocal facilitation between mental and visuomotor rotations. *Scientific Reports*, 13(1), 825.
- Nakayama K, Moher J, **Song J-H** (2023) Rethinking Vision and Action. *Annual Review of Psychology*, 74, 59-86.
- \*Makwana M, \*Zhang F, Heinke D, **Song J-H** (Under review) Continuous action with neurobiologically inspired computational approach reveals the dynamics of selection history.

### Editorial

- Song, J-H, Welsh, T (2019) Time for Action: An Introduction to the Special Issue. *Attention, Perception, & Psychophysics* 81 (7), 2121-2122.

**5. REFERRED CONFERENCE ABSTRACTS:** (#Undergraduate, §Graduate & \* Post-doc/Research associate co-authors)

- **Song J-H**, Nakayama K (2003) The role of focal visual attention in a manual pointing task. *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*
- **Song J-H**, Jiang Y (2004) How configural is implicit learning of repeated visual context? *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*
- **Song J-H**, Nakayama K (2004) The role of attention in manual pointing. *Motor control for vision scientists, Lunteren, Netherlands.*
- **Song J-H**, Nakayama K. (2005) Selecting and pointing: Consecutive serial processing? *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*
- Jiang Y, **Song J-H**, Rigas A (2004) High-capacity spatial contextual memory. *45<sup>th</sup> Annual Meeting of the Psychonomic Society, Minnesota, MN.*
- **Song J-H**, Nakayama K (2005) Control of speed and accuracy criteria in manual-pointing movements. *ESF-EMBO Symposium on three-Dimensional Sensory and Motor Space, Sant Feliu de Guixols, Spain.*
- **Song J-H**, Nakayama K (2005) Control of speed and accuracy set point in visually guided manual-pointing movements. *Annual Meeting of Object, Perception, and Memory, Toronto, Canada.*
- **Song J-H**, Nakayama K (2006) Automatic readiness adjustment of visually-guided manual-pointing movements. *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*
- Nakayama K, **Song J-H**, Finkbeiner M, Caramazza A (2007) Hand trajectories reveal cognitive states. *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*
- **Song J-H**, McPeck RM, Takahashi N (2007) Target selection for visually-guided reaching in macaque. *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*
- **Song J-H**, McPeck RM (2007) Target selection for visually-guided reaching in macaque. *Society for Neuroscience, San Diego, CA.*
- **Song J-H**, McPeck RM (2008) Target selection for visually-guided reaching in the dorsal premotor area during a visual search task. *Computational and Systems Neuroscience, Salt Lake City, UT.*
- **Song J-H**, McPeck RM (2008) Target selection for visually-guided reaching in the dorsal premotor area during a visual search task. *Annual Meeting of the Vision Sciences Society, Sarasota, FL.*
- McPeck RM, **Song J-H** (2009) Neural correlates of target selection for reaching movements in superior colliculus. *Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*
- McPeck RM, **Song J-H** (2009) Neural correlates of target selection for reaching movements in superior colliculus. *Society for Neuroscience, Chicago, IL.*
- Khan AZ, **Song J-H**, McPeck RM (2009) The eye dominates in guiding attention during simultaneous eye and hand movements. *Society for Neuroscience, Chicago, IL.*
- **Song J-H**, Rafal R, McPeck RM (2009) Deficits in target selection for reaching movements after superior colliculus inactivation. *Society for Neuroscience, Chicago, IL.*

- **Song J-H**, Rafal R, McPeck RM (2009) Neural substrates of target selection for reaching movements in superior colliculus inactivation. *Annual Meeting of Vision Sciences Society, Naples, FL.*
- Khan AZ, **Song J-H**, McPeck RM (2010) Attention is predominantly guided by the eye during concurrent eye-hand movements. *Annual Meeting of Vision Sciences Society, Naples, FL*
- McPeck RM, **Song J-H** (2010) Chronometry of reach target selection in superior colliculus and dorsal premotor area. *Society for Neuroscience, San Diego, CA.*
- **Song J-H**, \*Bédard P (2011) Attentional load effects on visuo-motor learning. *Annual Meeting of the Vision Sciences Society, Naples, FL.*
- **Song J-H**, \*Bédard P (2011) Selective role of attention in visuo-motor learning. *Society for Neuroscience, Washington D.C.*
- McPeck RM, **Song J-H** (2011) Superior colliculus activity related to saccade and reach target selection. *Society for Neuroscience, Washington D.C.*
- \*Moher J, **Song J-H** (2012) Opposite effects of external and internal conflict on subsequent behavior. *Annual Meeting of the Vision Sciences Society, Naples, FL.*
- \*Moher J, **Song J-H** (2012) Dynamic threshold adjustments for changes of mind in perceptual decision making. *Object Perception, Attention, and Memory, Minneapolis, MN.*
- McPeck RM, **Song J-H** (2012) Target-distractor competition in superior colliculus associated with curved reach trajectories. *Society for Neuroscience, New Orleans, LA.*
- **Song J-H**, \*Bédard P (2013) Effects of attentional states on visuomotor learning. *Annual Meeting of the Vision Sciences Society, Naples, FL.*
- \*Moher J, **Song J-H** (2013) Memory biases selection independent of previous response modality. *Annual Meeting of the Vision Sciences Society, Naples, FL.*
- \*Bédard P, **Song J-H** (2013) Attention modulates generalization of visuomotor learning. *Annual Meeting of the Vision Sciences Society, Naples, FL.*
- §Erb CD, \*Moher J, **Song J-H**, Sobel DM (2013) Reach trajectory tracking as an online measure of executive control. *Biennial meeting of the Cognitive Development Society, Memphis, TN.*
- §Erb CD, \*Moher J, **Song J-H**, Sobel DM (2013) Measuring the development of 'online' cognitive control in the flanker task. *Workshop on Learning to Attend, Attending to Learn, San Diego, CA.*
- **Song J-H**, \*Bédard P (2013) Long-lasting paradoxical effects of attentional-states on visuomotor memory. *Society for Neuroscience, San Diego, CA.*
- \*Moher J, §Anderson B, **Song J-H** (2013) Reward-Associated Stimuli Trigger Movement Repulsion in Goal-Directed Action. *Psychonomic Society Annual Meeting, Toronto, ON.*
- \*Moher J, \*Machizawa, M, **Song J-H** (2014) Understanding changes-of-mind in decision making through visually-guided action and electroencephalography. *Cognitive Neuroscience Society Annual meeting, Boston, MA.*
- #Kelly K, \*Moher J, Harris A, **Song J-H** (2014) Sensorimotor dynamics of food choices revealed by reaching. *Cognitive Neuroscience Society Annual meeting, Boston, MA.*

- §Gamble C, **Song J-H** (2014) Distinct patterns of size-contrast illusion effects in reaching and grasping. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- **Song J-H**, \*Bédard P (2014) Long-lasting paradoxical effects of attentional-states on visuomotor memory. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- \*Moher J, **Song J-H** (2014) Enhancement and suppression biases for target selection transfer across saccades and reaches. *Psychonomic Society Annual Meeting, Long Beach, CA.*
- **Song J-H**, \*Im HY, \*Bédard P (2015) Paradoxical Benefits of Dual-Task Contexts for Visuomotor Memory. *Neural Control of Movement Meeting, Charleston, SC.*
- **Song J-H**, \*Im HY, \*Bédard P (2015) Encoding attentional-states during visuomotor adaptation. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- §Gamble C, **Song J-H** (2015) Distinct influences of size-contrast illusion on action preparation and execution. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- \*McCarthy JD, **Song J-H** (2015) Global and local attentional influences on target selection for action. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- \*Im HY, **Song J-H** (2015) Inhibitory modulation of perception and action by repeated colors without consciousness. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- \*§Erb CD, \*Moher J, **Song J-H**, Sobel DM (2015) Reach Tracking Reveals Dissociable Processes Underlying Cognitive Control in 5- to 10-year-olds. *Ninth Biennial Meeting of the Cognitive Development Society. Columbus, OH.*
- \*McCarthy JD, \*Moher J, **Song J-H** (2016) Neural substrates of priming of pop-out during eye and hand movements. *Annual Meeting of the Society for the Neural Control of Movement, Montego Bay, Jamaica.*
- \*McCarthy JD, \*Gamble C, **Song J-H** (2016) Differential cortical responses to salience during perception and goal-directed action. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- \*Sun H-M, Verghese P, **Song J-H** (2016) Time course of distractor suppression revealed by chronometry. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL, May 2016.*
- §Gamble C, **Song J-H** (2016) Impact of conscious versus unconscious distractors in pop-out visual search. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- #Song J, \*Im HY, §Gamble C, **Song J-H** (2016) Effects of scene consistency in subliminally perceived visual stimuli. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- \*Wang T, #Rodriguez NDR, **Song J-H** (2016) Utilizing interference to investigate a prediction model of visuomotor learning. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- §Guo J, **Song J-H** (2016) Ease of action toward a target enhances orientation discrimination during motor preparation. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- \*McCarthy JD, **Song J-H** (2016) Dissociable suppression of salient distractors during perception and goal-directed action. *Society for Neuroscience, San Diego, CA.*
- Festa EK, \*Wang T, Heindel W, **Song J-H** (2016) The effects of cognitive aging on attentional context in visuomotor learning. *Society for Neuroscience, San Diego, CA.*

- §Erb CD, \*Moher J, **Song J-H**, Sobel, DM (2017). Reaching behavior reveals dissociable inhibitory processes with divergent developmental trajectories. *Biennial Meeting of the Society for Research in Child Development, Austin, TX*.
- \*McCarthy JD, **Song J-H** (2016) Dissociable suppression of salient distractors during perception and goal-directed action. *Society for Neuroscience, San Diego, CA*.
- \*Wang T, **Song J-H** (2016) Attentional context-dependent generalization of visuomotor memory. *Society for Neuroscience, San Diego, CA*.
- \*McCarthy JD, §Gamble C, **Song J-H** (2017) Distinct prefrontal responses to salient distractors during perception and goal-directed action. *Cognitive Neuroscience Society, San Francisco, CA*.
- **Song J-H**, \*Moher J, \*McCarthy JD, \*Machizawa M, P Yan, X Luo (2017) Conflicting neural evidence and delayed attentional shifts underlie changes of mind in decision-making. *Annual Meeting of the Society for the Neural Control of Movement, Dublin, Ireland*.
- \*McCarthy JD, §Gamble C, \*Moher J, **Song J-H** (2017) Salient distractors attract visual attention but attenuate action-related interference: Corroborating evidence from EEG and fMRI. *Society for the Neural Control of Movement, Dublin, Ireland*.
- §Wilmott, J, **Song J-H** (2017) Attention Involved in Visual Search with Multiple Targets. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- §Guo J, **Song J-H** (2017) Relation between action precision and perceptual discrimination. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- §Gamble CM, **Song J-H** (2017) Congruency between perceptual and conceptual object size modulates visually-guided action. *Vision Sciences Society, St. Pete Beach, FL*.
- \*Sun H-M, #Lin M, **Song J-H** (2017) Irrelevant angry facial expressions attract attention and action. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- §Gamble C, **Song J-H** (2018) Modulation of visually-guided action by the image size and familiar size of real-world objects. *International Meeting of the Psychonomics Society, Amsterdam, The Netherlands*.
- **Song J-H**, §Guo J (2018) Action fluency facilitates perceptual discrimination. *Annual Meeting of the Canadian Society for Psychomotor Learning and Sport Psychology, Toronto, Canada*.
- §Guo J, **Song J-H** (2018) Learning a visuomotor rotation enhances mental rotation. *Annual Meeting of Object Perception, Attention, and Memory, New Orleans, LO*.
- §Guo J, **Song J-H** (2018) Learning a visuomotor rotation enhances mental rotation. *Annual Meeting of the Psychonomics Society, New Orleans, LO*.
- §Wilmott, J, **Song J-H** (2018) Attentional requirements modulate the effect of multiple targets during pop-out visual search. *Annual Meeting of Object Perception, Attention, and Memory, New Orleans, LO*.
- §Guo J, Zhang Z, Sternad D, **Song J-H** (2019) Improved motor timing enhances time perception. *Annual New England Sequencing and Timing (NEST) meeting, Storrs, CT*.
- §Guo J, Zhang Z, Sternad D, **Song J-H** (2019) Improved motor timing enhances time perception. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.

- #Martinez M, **Song J-H** (2019) Effect of observation on visuomotor generalization. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- §Wilmott, J, **Song, J-H** (2019) Gaze bias during preference-based decision making. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- Heinke D, **Song J-H** (2020) A novel diffusion-model of choice reaching tasks. *Annual Meeting of the Virtual-Vision Sciences Society.*
- §Guo J, **Song J-H** (2020) Reciprocal facilitation between mental rotation and visuomotor rotation. *Annual Meeting of the Virtual-Vision Sciences Society.*
- #McEwen C, §Guo J, #Lu Y, **Song J-H** (2020) How does action training influence mental rotation of maps? *Annual Meeting of the Virtual-Vision Sciences Society.*
- \*Makwana M, Guo J, Gottlieb J, **Song J-H** (2020) Dissociating processes underlying cognitive control and value-based attention: A reach tracking study. *Annual Meeting of the Virtual-Vision Sciences Society.*
- Taylor U, **Song J-H**, Sobel DM (2021). Using Reach Tracking to Document the Role of Inhibition in Selective Learning. *Virtual Biennial Meeting of the Society for Research in Child Development.*
- \*Makwana M, \*Zhang F, Heinke D, **Song J-H** (2021) Dissociating mechanism underlying selection history bias for goal-directed reaching movements. *Annual Meeting of the Virtual-Vision Sciences Society.*
- \*Menceloglu M, **Song J-H** (2021). Revealing the effects of temporal orienting of attention on response conflict using continuous movements. *Annual Meeting of the Virtual-Vision Sciences Society.*
- Heinke D, \*Liddy J, §Porat L & **Song J-H** (2021) Modeling trajectories from choice reaching experiments through submovement decomposition. *Annual Meeting of the Virtual-Vision Sciences Society.*
- \*Liddy J, \*Im H, **Song J-H** (2021) Attentional context-dependent memory during gradual visuomotor adaptation. *Annual Meeting of the Virtual-Vision Sciences Society.*
- \*Makwana M, \*Zhang F, Heinke D, **Song J-H** (2021) Dissociating mechanism underlying selection history bias for goal-directed reaching movements. *43rd European Conference on Visual Perception.*
- \*Menceloglu M, Nakayama K, **Song J-H** (2021) Radial bias alters perceived object orientation. *43rd European Conference on Visual Perception.*
- §Hu Y-F, Miao M-C, Yang H-Y, **Song J-H**, Kuai S-G (2021) Peripersonal space is a spatiotemporal window rather than a fixed space. *43rd European Conference on Visual Perception.*
- Heinke D, \*Liddy J, §Porat L, **Song J-H** (2021) A new method for analyzing trajectories from choice reaching experiments: A submovement decomposition. *43rd European Conference on Visual Perception.*
- \*Menceloglu M, Nakayama K, **Song J-H** (2021) Radial bias alters perceived object orientation. *43rd European Conference on Visual Perception.*
- \*Menceloglu M, Nakayama, K, **Song J-H** (2021) Radial bias alters perceived object orientation. *International Meeting of the Psychonomics Society, Amsterdam, The Netherlands.*

- \*Menceloglu M, Suzuki S, **Song J-H** (2021) Revealing the effects of temporal orienting of attention on response conflict using continuous movements. *Annual Meeting of Object Perception, Attention, and Memory*.
- \*Menceloglu, M, #Roy D, **Song J-H** (2022) The speed of a moving object is underestimated behind an occluder in action and perception tasks. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- §Hu Y-F, Sobel D, **Song J-H** (2022) How does subitization interact with the numerical distance effect in a choice-reaching task? *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- \*Makwana M, \*Zhang F, Heinke D, **Song J-H** (2022) Evaluating individual differences in selection history bias for goal-directed reaching movements. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- \*O'Bryan SR, \*Liddy J, **Song J-H** (2022) Task-evoked pupil diameter reveals working memory based strategy modulation in visuomotor adaptation. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- \*Zhang F, \*Makwana M, **Song J-H**, Heinke D (2022) Neurobiologically inspired robotics model: Underlying mechanisms for target selection biases from a recent experience of goal-directed action. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- \*Liddy J, #Daskalopoulos A, **Song J-H** (2022) Implicit visuomotor adaptation is modulated by the attentional demands of a secondary task. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL*.
- \*Menceloglu M, #Roy D, #Yi S, #Gao J, **Song J-H** (2022). Dissociable top-down and bottom-up effects in temporal and effector preparation. *Society for Neuroscience, San Diego, CA*.
- \*Menceloglu M, **Song J-H** (2022) Dissociable effects of cueing and priming of timing and effector in response preparation. *Annual Meeting of the Psychonomic Society, Boston, MA*.
- \*O'Bryan SR, \*Liddy J, **Song J-H** (2022) Spatial working memory capacity modulates the association between cognitive effort and performance in visuomotor adaptation. *Annual Meeting of the Psychonomic Society, Boston, MA*.
- #Daskalopoulos A, \*Liddy J, **Song J-H** (2022) Implicit learning is modulated by attentional demands. *Object Perception, Attention, and Memory, Boston, MA*.
- \*O'Bryan SR, Moher J, **Song J-H** (2022) Neural substrates of target selection for action guided by selection history. *Object Perception, Attention, and Memory, Boston, MA*.

#### 6. INVITED LECTURES AND TALKS:

- 2005 Department of Physiology, University of Montreal, Montreal, Canada: *Visually-guided action and target selection*.
- 2006 Department of Psychology, Harvard University, Cambridge, MA: *Characteristics of visually-guided motor actions in selection tasks*.
- 2006 Department of Psychology, University of Western Ontario, London, Canada: *Visually-guided action and target selection*.

- 2006 The Smith-Kettlewell Eye Institute, San Francisco, CA: *Visually-guided action and target selection.*
- 2007 Department of Physiology, UCSF, San Francisco, CA: *Reach target selection.*
- 2008 Department of Psychology, Seoul, Korea: *Visually-guided action and cognitive process.*
- 2009 Department of Psychology, Michigan State University, East Lansing, MI: *How does a complex visual environment interact with visually-guided action?*
- 2009 Department of Psychology, Brown University, RI: *How does a complex visual environment interact with visually-guided action?*
- 2009 Department of Psychological and Brain Sciences, Dartmouth College, Hanover, NH: *How does a complex visual environment interact with visually-guided action?*
- 2009 Department of Psychology, Seoul National University, Seoul, Korea: *How does a complex visual environment interact with visually-guided action?*
- 2010 Department of Psychology, Northwestern University, Evanston, IL: *Interaction between perception, cognition and action.*
- 2010 Neuroscience Retreat, Brown University, RI: *Target selection for visually-guided action.*
- 2011 Department of Psychology, Seoul National University, Seoul, Korea: *Neural mechanisms target selection for visually-guided action.*
- 2011 Department of Psychology, Korea University, Seoul, Korea: *Neural mechanisms target selection for visually-guided action.*
- 2011 Department of Psychology, Yonsei University, Seoul, Korea: *Neural mechanisms target selection for visually-guided action.*
- 2011 Korea Advanced Institute of Science and Technology, Deajeon, Korea: *Neural mechanisms target selection for visually-guided action.*
- 2012 Department of Psychology, Harvard University, Cambridge, MA: *Complex visual environments and visually-guided action.*
- 2012 IDEa mini-conference, North Dakota State University, Fargo, ND: *Interaction between complex visual environments and visually-guided action.*
- 2013 Harvard Medical School, Boston, MA: *Paradoxical attentional effects on visuomotor learning.*
- 2013 Joint workshop organized by Harvard Vision Lab, Harvard Computer Science, Dartmouth College and Brown University, Department of Psychology, Harvard University, Cambridge, MA: *Applications of reach trajectories.*
- 2013 Department of Biomedical Engineering, Boston University, Boston, MA: *Integrated perception, cognition and action in a complex visual environment.*
- 2013 Department of Psychology, University of Rutgers, New Brunswick, NJ: *Attention and visuomotor processes.*
- 2013 Graduate Center for Vision Research and SUNY Eye institute, SUNY College of Optometry, New York, NY: *Paradoxical effects of attentional states on visuomotor*

*learning.*

- 2014 McGovern Institute for Brain Research, MIT, Cambridge, MA: *Integrated perception, cognition and action in a complex visual environment.*
- 2015 Department of Psychology, University of Birmingham, UK: *Integrated perception, cognition and action in a complex visual environment.*
- 2015 Department of Psychology, University of York, UK: *Integrated perception, cognition and action in a complex visual environment.*
- 2015 Department of Psychology, UC Berkeley, Berkeley, CA: *Paradoxical modulation of motor actions by attention.*
- 2015 The Smith-Kettlewell Eye Research Institute, San Francisco, CA: *Paradoxical modulation of motor actions by attention.*
- 2015 Department of Psychology, UC Merced, Merced, CA: *Paradoxical modulation of motor actions by attention.*
- 2015 Department of Psychology, Stanford University, Palo Alto, CA: *Paradoxical modulation of motor actions by attention.*
- 2015 Department of Biomedical Engineering, University of Colorado Boulder, Boulder, CO: *Paradoxical modulation of motor actions by attention.*
- 2015 Department of Psychology, Princeton University, Princeton, NJ: *Paradoxical modulation of motor actions by attention.*
- 2016 Symposium, Society for the Neural Control of Movement, Montagobay, Jamaica: *Dissociable Effects of Salience on Attention & Goal-Directed Action.*
- 2016 Boston VA Hospital, Boston, MA: *Dissociable Effects of Salience on Attention & Goal-Directed Action.*
- 2016 Nanosymposium, Society for Neuroscience, San Diego, CA: *Paradoxical benefits of attentional distraction for visuomotor memory without explicit awareness.*
- 2016 Boston action club, Northeastern University, Boston, MA: *Paradoxical modulation of motor actions by attention.*
- 2017 Ecole d'optometrie, Universite de Montreal, Montreal, Canada: *How do perception and action interact with a complex visual environment?*
- 2017 Centre For Neuroscience, Queens University, Kingston, Canada: *Paradoxical modulation of motor actions by attention.*
- 2017 Trinity College, Dublin, Ireland: *How do perception and action interact with a complex visual environment?*
- 2017 Department of Psychology, North Dakota State University, Fargo, ND: *Paradoxical modulation of motor actions by attention.*
- 2018 Department of Applied Physiology & Kinesiology, University of Florida, Orlando, FL: *Paradoxical modulation of motor actions by attention.*
- 2018 The Leading-Edge Workshop, Amsterdam, the Netherlands: *Paradoxical modulation of motor actions by attention.*

- 2018 Symposium at Annual Meeting of the Psychonomics Society, New Orleans, L: *Time for Action: Reaching for a Better Understanding of the Dynamics of Cognition*
- 2019 Visual attention lab, Harvard Medical school, Cambridge, MA: *"How action training affects perception and cognition"*
- 2019 Department of Psychology, UC Berkeley, California, CA: *"How action training affects perception and cognition"*
- 2019 Center for Mind and Brain, UC Davis, CA: *"How action training affects perception and cognition"*
- 2019 The Smith-Kettlewell Eye Institute, San Francisco, CA: *"How action training affects perception and cognition"*
- 2020 University of Nevada, Reno, NV: *"How action training affects perception and cognition"*
- 2020 University of Birmingham, UK: *"How action training affects perception and cognition"*
- 2020 Rosenbaum Lab at UC Riverside, CA: *"How action training affects perception and cognition"*
- 2021 Nanosymposium, Society for Neuroscience: *"Neural Encoding and Representation of Time for Sensorimotor Control and Learning"*
- 2022 Istituto Italiano di Tecnologia: *"How does action training affect perception and cognition?"*
- 2022 Rochester University Center for Vision Research Symposium: *"How does action training affect perception?"*
- 2022 Rutgers-Princeton Center for Computational Cognitive Neuropsychiatry: *"How does action training affect perception and cognition?"*

## 7. RESEARCH SUPPORT

### Current support

NSF BCS 1555006 <i>CAREER: Paradoxical Benefits of Distraction for Motor Memory</i> National Science Foundation (\$646,460) Role: PI	09/01/2016-8/31/2022
NSF BCS 1849169 <i>SBE-UKRI: Integrating vision and action through selection history</i> National Science Foundation (\$556,670) Role: PI	07/01/2019-06/30/2023
NIH 1R15NS113135 <i>Motor variability as a window into sustained attention</i> National Health Institute (\$357,061) Role: Subcontract-PI (PI. Moher)	07/01/2019-06/30/2023

NSF BCS 1917639 <i>The Dynamics of Inhibition in Social Cognitive Development</i> National Science Foundation (\$520,876) Role: Co-PI (PI. Sobel)	09/01/2019-08/31/2023
NSF SMA 2104666 <i>An EEG investigation of temporal orienting of attention for goal-directed eye and hand movements</i> National Science Foundation (\$138,000) Role: Co-PI (PI. Menciloglu)	08/01/2021-07/31/2023
NSF BCS 2043328 <i>Collaborative Research: Emergent motor timing influences perceptual timing</i> National Science Foundation (\$408,677) Role: PI	09/01/2021-08/31/2024
NSF BCS 2138047 <i>Women in Cognitive Science: Networking, Visibility, and Career Pathways</i> National Science Foundation (\$49,937) Role: Co-PI (PI. Arrington)	09/15/2021-08/31/2023
Zimmerman Innovation Awards in Brain Science <i>Quantitative evaluation of sense of agency during intracortical brain-computer interface use</i> Brown University (\$50,000) Role: Co-PI (PI. Vargas-Irwin)	01/01/2022-05/31/2023

**Completed support**

R.C. Atkinson Fellowship Award. <i>Neural Mechanisms of Target Selection for Visually-Guided Actions</i> The Smith-Kettlewell Eye Research Institute (\$45,000) Role: PI	08/01/2007-07/31/2008
Richard B. Salomon Faculty Research Award <i>Neural substrates for target selection for actions</i> Brown University (\$15,000) Role: PI	02/14/2011-06/30/2012
Salomon grant for course, Brown University <i>Department shared equipment purchase for course teaching</i> Brown University (\$500) Role: PI	02/14/2011-06/30/2011

Salomon grant for course, Brown University <i>Department shared equipment purchase for course teaching</i> Brown University (\$500) Role: PI	02/14/2013-06/30/2013
RI Foundation 20144132 <i>Modulation of attentional states on motor learning</i> Rhode Island Foundation (\$15,000) Role: PI	05/01/2015-09/30/2016
NSF SPRF 1514246 <i>Change of Mind in target selection for action</i> National Science Foundation (\$234,000) Role: Co-PI (PI. McCarthy)	07/01/2015-06/30/2017
NIH P20GM103645 <i>Target selection for visually-guided action</i> National Institute of Health (\$1,200,000 to Project 5) Role: Project 5 PI	08/15/2013-07/31/2018

**8. SERVICE:****To the Department**

2012	Cognitive neuroscience curriculum review committee for external review
2013	Cognitive science curriculum review committee for external review
2013-2015	Cognitive science honors committee
2014	Faculty panel for Women in Mind
2014-2019	Colloquium committee
2016	Department Diversity Committee
2016- current	Psychology Concentration advisor
2016- current	Undergraduate Curriculum Committee
2017	Graduate recruitment day committee
2018-	CLPS graduation admission Committee
2018	CLPS Honors thesis committee
2018	CLPS Interim leader: Department Diversity and Inclusion Committee
2018-2019	CLPS Cognition faculty Search Committee
2020, 2021	CLPS Eimas Graduate research award Committee

**To the University**

2014	BEARCORE Speaker, OVPR
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- 2012-2015 Faculty mentoring network for African American, Latino, Asian/Asian American, and Native American students
- 2014 Summer Pre-College Program, Faculty Lunch Series Speaker
- 2015 Faculty Member of the broader impact group for Science center external review
- 2016, 2017 Faculty Panel, Young Scholars Conference
- 2016-2018 First-year advisor
- 2017-2018 Sophomore advisor
- 2017 Faculty Judge, Mind Brain Research Day
- 2017, 2018 Faculty Reviewer for Salomon Faculty Research Award
- 2017 Certificate of Conflict Resolution (40hrs), Ombudsman office, Brown University
- 2017-2019 NSF CAREER Workshop panel
- 2017-2019 NSF CAREER Mock Review panel
- 2018, 2022 Engaged Scholarship and Broader Impacts Workgroup Faculty Speaker for Sci-toons and the Leadership Alliance FYRE
- 2021-present Graduate Council
- 2022 University UTRA Review Committee
- 2022 CLPS Peer Teaching Review Committee

### **To the profession**

#### Conference

- 2014 Faculty panel: Vision Sciences Society Workshop for PhD Students and Postdocs: *How to Transition from Postdoc to Professor?*
- 2016 Symposium organizer  
*Cognitive and neural architecture of sensorimotor behaviors.*  
Annual Meeting of the Society for the Neural Control of Movement, Montego Bay, Jamaica
- 2016 Session Chair  
Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- 2016 Session Chair  
Society for Neuroscience, San Diego, CA
- 2016 Session Chair  
Society for the Neural Control of Movement, Montagobay, Jamaica
- 2018 Leading-Edge Workshop Organizer with the Leading-Edge award  
The Psychonomics Society Leading-Edge Workshop: *Time for Action: Reaching for a Better Understanding of the Dynamics of Cognition*, Amsterdam, The Netherlands
- 2018 Workshop Organizer  
Leading-Edge Symposium: *Time for Action: Reaching for a Better Understanding of the Dynamics of Cognition. Amsterdam, Netherlands.*

(<https://www.psychonomic.org/page/2018workshop>)

- 2018 Symposium Organizer  
Symposium at Annual Meeting of the Psychonomics Society, New Orleans, LO
- 2020 Leadership team: Organizer  
The 20<sup>th</sup> Annual meeting of Women in Cognitive Science: *Why Still So Slow*
- 2021 Session Chair  
Annual Meeting of the Virtual Vision Sciences Society
- 2021 Meet the professor: Vision Sciences Society Workshop for PhD Students and Postdocs mentoring
- 2021 Leadership team: Organizer  
The 21<sup>st</sup> Annual meeting of Women in Cognitive Science: *Mentoring Matters*
- 2021 Symposium Organizer  
Symposium at Society for Neuroscience: *Neural Encoding and Representation of Time for Sensorimotor Control and Learning"*
- 2022 Session Chair  
Annual Meeting of the Virtual Vision Sciences Society
- 2022 Focus group of the Psychonomics Society

### Editorial

- 2018-2019 Guest Editor  
*Special Issue: Time for Action: Reaching for a Better Understanding of the Dynamics of Cognition, Attention, Perception & Psychophysics*
- 2018- Board Member  
*Journal of Experimental Psychology: Human Perception & Performance*
- 2020- Associate Editor  
*Journal of Experimental Psychology: General*
- 2020- Consulting Editor  
*Psychological Bulletin and Review*

### Leadership

- 2020- Leadership Team of U.S. Women in Cognitive Science (WiCS)

### Ad hoc review

*Acta Psychologica; Attention, Perception, Psychophysics; Cognition; Cognitive Science; Cognitive, Affective, and Behavioral Neuroscience; Current Biology; Current directions in Psychological Science; Developmental Psychology; Experimental Brain Research; Human Brain Mapping; Journal of Experimental Psychology: Human Perception & Performance; Journal of Neurophysiology; Journal of Neuroscience; Journal of Vision; Nature Neuroscience; Nature Communication; Nature Human*

*Behavior; Neuropsychologia; PLoS Biology; PLoS ONE; Psychological Sciences; Scientific Report: Trends in Cognitive Sciences; Vision Research.*

Conference abstract review

2014 Computational and Systems Neuroscience (Cosyne)  
 2015-2018 Cognitive Science Society Annual Conference  
 2021- Vision Science Society

Grant ad-hoc review

2010 Macquarie Research Fellowship, Macquarie University, Australia  
 2012 Marsden Fund, New Zealand  
 2012 Israel Science Foundation Grant (ISF), Israel  
 2014 BBSRC Grant, UK  
 2015 The Hong Kong Institute of Education, General Research Fund  
 2016 U.S.-Israel Binational Science Foundation  
 2016-2022 National Science Foundation: Perception, Action & Cognition  
 2016 The Research Foundation – Flanders (FWO), Belgium  
  
 2018 DFG, German Research Foundation, Germany  
 2020, 2022 U.S.-Israel Binational Science Foundation

Grant panel review

2018 National Science Foundation: Graduate Research Fellowships Program (GRFP)  
 2019-2022 National Science Foundation: Grant Panel

**To the community**

2014 Workshop in Annual Science Conference, Vartan Gregorian Elementary School, Providence, RI  
 2015, 2016 Science demonstration, Annual Brown Brain Fair, Brown University  
 2017 Sci-toon with Brown Science center for K-12 students and general public  
 ("How does your brain see the world?", published on "What is Context-Dependent Memory?" has been just published on YouTube 5/01/2017:  
<https://www.youtube.com/watch?v=nOdXzVL5YKo&t=71s>).  
 2021 Sci-toon with Brown Science center for K-12 students and general public  
 ("What is Context-Dependent Memory?" published on YouTube 01/20/2021:  
<https://bit.ly/3o8DOCW>).

**9. TEACHING:**

Classroom Teaching

Fall 2010 CLPS 1580A Visually-guided action and cognitive processes (12 enrolled)  
 Spring 2011 CLPS 2500 Core topics in perception (15 enrolled)

*Fall 2011- Spring 2012 (Full year medical Leave)*

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Fall 2012	CLPS 1580A Visually-guided action and cognitive processes (11 enrolled)
Fall 2012	CS 237 Interdisciplinary Scientific Visualization (Sponsor for 2 students)
Spring 2013	CLPS 2500 Core Topics in Perception (15 enrolled)
Fall 2013	CLPS 1580B Visual Attention (3 enrolled and 1 audit)
Spring 2014	CLPS 0500 Perception and Mind (40 enrolled)
Fall 2014	CLPS 0500 Perception and Mind (36 enrolled)
<i>Spring 2015</i>	<i>(Junior Sabbatical)</i>
Fall 2015	CLPS 0500 Perception and Mind (59 enrolled)
Spring 2016	CLPS 1560 Visually-guided action and cognitive processes (17 enrolled)
Fall 2016	CLPS 0500 Perception and Mind (61 enrolled)
Spring 2017	CLPS 1560 Visually-guided action and cognitive processes (12 enrolled)
Fall 2017	CLPS 0500 Perception and Mind (69 enrolled)
Fall 2017	CLPS 1560 Visually-guided action and cognitive processes (14 enrolled)
Fall 2017	CLPS 2001 Graduate Core (guest lecture)
Fall 2018	CLPS 0500 Perception and Mind (48 enrolled)
Fall 2018	CLPS 2001 Graduate Core (guest lecture)
Spring 2019	CLPS 1561 The nature of attention (14 enrolled)
<i>Fall 2019- Spring 2020</i>	<i>(Post-Tenure Sabbatical)</i>
Fall 2020	CLPS 1560 Visually-guided action and cognitive processes (15 enrolled)
Fall 2020	CLPS 2001 Graduate Core (guest lecture)
Spring 2021	CLPS 0500 Perception and Mind (126 enrolled)
Fall 2021	CLPS 0500 Perception and Mind (62 enrolled)
Spring 2022	CLPS 1560 Visually-guided action and cognitive processes (20 enrolled)
Fall 2022	CLPS 0500 Perception and Mind (52 enrolled)

**10. MENTORING:**

Post-docs & Research associate

Current Post-doc

Melisa Menciloglu, Ph.D. (2020-

- NSF SMA post-doctoral fellowship (2021-2023, Co-PI: Song)
- Vision Science Society (VSS) Travel Award (2021)
- The Fovea Travel and Networking Award (2021)

Sean O'Bryan, Ph.D. (2021-

- Vision Science Society (VSS) Travel Award (2022)

Former post-docs & research associates:

Jeff Moher, Ph.D. (2011-2014)

- Center for Vision Research post-doc fellowship (2011-12) (Supervisor: Song)
- NIMH Brown Training program in Systems and Behavioral Neuroscience (T32 MH019118-19, 2012-2013, Supervisor: Song)
- Current: Associate professor, Connecticut College, CT

Hee Yeon Im, Ph.D. (2014-2015)

- Center for Vision Research post-doc fellowship (2014) (Supervisor: Song)
- Current: Assistant professor, University of British Columbia, CA

Patrick Bédard, Ph.D. (2010-2015) (Co-supervisor)

- Current: Research Associate, NIMH, Washington, DC

Tony Wang, Ph.D. (2015-2018)

- Center for Vision Research post-doc fellowship (2016-2017) (Supervisor: Song)
- Current: Senior Data Scientist at Cluey Learning, Sydney, Australia

Dan McCarthy, Ph.D. (2014-2018)

- NSF SPRF grant (2015-2018, Co-PI: Song)
- Current: Meta

Joshua Liddy, Ph.D. (2020-2021)

- Current: Post-doc, UMass Amherst, MA

Mukesh Makwana, Ph.D. (2019-2021)

- Vision Science Society (VSS) Travel Award (2021)
- Current: Post-doc, Brown University, RI

**Graduate students**

Former MSc students:

Ryo Kyung Lee (CLPS, '13 ScM.)

- Thesis: "Context Effects on Visuomotor Learning"
- Current: Researcher at DENSO

Kassandra Kelly (CLPS, '14 ScM, 5<sup>th</sup> year *Master's program for Brown Undergraduates*)

- Thesis: "Sensorimotor Dynamics of Food Choices Revealed by Reaching"
- Current: Research Assistant at Quality Metric Incorporated

Former Ph.D. students:

Christine Gamble (CLPS, '18 Ph.D.)

- NSF Graduate Research Fellowship (2014-2017, Advisor: Song)
- Thesis: "The dynamic interplay between target size perception and visually- guided action"
- Vision Science Society (VSS) Travel Award (2017)
- Current: Senior Data Strategist, Grey Group, NY

Jianfei Guo (CLPS, '21 Ph.D.)

- Summer School in Computational Sensory-Motor Neuroscience fellowship (2017)
- Thesis: “Action Training Facilitates Perception and Cognition”
- Current: UX User Experience Researcher, TikTok, CA

James Wilmott (2016-2019)

- T32 EY018080, 2017-2019 (Supervisor: Song)

Yi-Fei Hu (2021-2022)

Jessica Ip (2021-2022)

Visiting & rotation graduate students

Yuwen Zeng (Zhejiang University, China), visiting student (2013)

Heysol Bermudez (Neuroscience), rotation student (2013-2014)

Julia Wolska (University of Birmingham, UK), visiting summer student (07/2017.7-09/2017)

Yi Lu (University of Beijing, China), visiting summer student (07/2019 -09/2019)

Ph.D. committee

Heida Sigurdardottir (Neuroscience, '13 Ph.D): Dissertation

Lachlan Franquemont (Neuroscience, '15 Ph.D): Prelim and Dissertation

Huaiyong Zhao (CLPS, '14 Ph.D): First year project and Dissertation

Li-Hung Chang (CLPS, '14 Ph.D): Prelim and Dissertation

Kevin Rio (CLPS, '14 Ph.D): Dissertation

Christopher Erb (CLPS, '15 Ph.D): Dissertation

Ji Won Bang (CLPS, '15 Ph.D): Prelim and Dissertation

Xuan Zhao (CLPS): Prelim

Trenton Wirth (CLPS): First year project

Leslie Lai (CLPS, '20 Ph.D): Dissertation

Brittany Baxter (CLPS, '21 Ph.D): First year project, Prelim and Dissertation

Jiyuang Bai (CLPS): First year project, Prelim and Dissertation

Ailin Deng (CLPS): First year project

Andrew Linn (CLPS, '21 Ph.D): Dissertation

Meghan Willcoxon (CLPS): Prelim, Proposal, and Dissertation

Amaro Tuninetti (CLPS): Proposal, and Dissertation

Anthony Bruno (CLPS): First year project, Prelim.

Yi-Fei Hu (CLPS): First year project.

Jessica Ip (CLPS): First year project.

External Ph.D. dissertation examiner

2015 Department of Psychology, University of Birmingham, UK.

2016-2017 Department of Psychology, Vanderbilt University, Nashville, TN.

## Undergraduate Students

### Honor thesis advisees

Kassandra Kelly (CLPS, '13 ScB) (09/2011-06/2014)

- Thesis: "The Temporal Evolution of the Decision Making Process"
- Undergraduate Teaching and Research Awards (UTRA) (2012 Summer, Advisor: Song)

Michelle Koh (Biology, '15 ScB) (02/2014-06/2015)

- Thesis: "The Effect of Attentional States on Saccadic Adaptation"
- PLME Summer Research Fellowship (2014 Summer, Advisor: Song)

Jiyoon Stephanie Song (Neuroscience, '16 ScB) (02/2014-06/2016)

- Thesis: "Effects of Scene Consistency on Subliminally Presented Visual Stimuli"
- Undergraduate Teaching and Research Awards (UTRA) (2015 Summer, Advisor: Song)
- Research at Brown Fund for VSS Presentation (2016, Advisor: Song)

Bethany Hung (CLPS, '19 ScB) (04/2017-05/2019)

- Undergraduate Teaching and Research Awards (UTRA) (2018 Fall, Advisor: Song)
- Thesis: "The Effect of Action on Visual Crowding"
- CLPS Honors thesis award (2019, Advisor: Song)

Miles Martinez (CLPS, '20 ScB) (09/2016-08/2020)

- Undergraduate Teaching and Research Awards (UTRA) (2017 Summer, Advisor: Song)
- Thesis: "Observation of learning provides a uniform, context-dependent benefit to motor generalization"
- CLPS Honors thesis award (2020, Advisor: Song)
- Vision Science Society (VSS) Travel Award (2020, Advisor: Song)

Anna Kaneb (CLPS, '21ScB).

- Thesis: "Which Domain of Working Memory Supports Visuomotor Adaptation?"
- CLPS Honors thesis award (2021, Advisor: Song)

### Undergraduate research advisees

Michael Dixon (09/2010-06/2012)

Michaela Lewis (09/2010-06/2012)

Jonathan Sit (06/2012-08/2014)

- Janey Scholars Fellowship for Summer Research (2012, 2013, Advisor: Song)

Chloe Kliman-Silver (09/2013-12/2016)

Michelle Lin (02/2015-09/2016)

- Undergraduate Teaching and Research Awards (UTRA) (2016 Summer, Advisor: Song)

AJ Whitman (06/2015-09/2016)

Jazmin Piche (11/2015-12/2016)

Jennifer Flaherty (06/2015-8/2016)

Tim Guo (11/2015-12/2017)

Rachel Martino (01/2017-05/2017)

William Hackett (09/2017-2019)

- Undergraduate Teaching and Research Awards (UTRA) (2018, Summer Advisor: Song)

Claire McEwen (09/2018-07/2020)

- Undergraduate Teaching and Research Awards (UTRA) (2019 Sumer, Advisor: Song)

Owen Wogmon (03/2020-08/2021)

Alexander Daskalopoulos (12/2020-)

- Undergraduate Teaching and Research Awards (UTRA) (2021 Summer, Advisor: Song)
- Undergraduate Teaching and Research Awards (UTRA) (2023 Spring, Advisor: Song)

Diyarhi Roy (03/2021-05/2022)

- Undergraduate Teaching and Research Awards (UTRA) (2022 Spring, Advisor: Song)

Sarah Yi (09/2021-05/2022)

- Undergraduate Teaching and Research Awards (UTRA) (2022 Spring, Advisor: Song)

Joyce Guo (03/2021-)

- Undergraduate Teaching and Research Awards (UTRA) (2022 Fall, Advisor: Song)

Norah Kisakye (09/2021-)

- Undergraduate Teaching and Research Awards (UTRA) (2022 Spring, Advisor: Song)

KatherineJ Warren (09/2021-)

- Undergraduate Teaching and Research Awards (UTRA) (2023 Spring, Advisor: Song)

*Educational outreach with non-Brown undergraduates*

2014 *Brazil Scientific Mobility Program*

2014- present Faculty Mentor for the *Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (BP-ENDURE)*

2015-present Faculty Mentor for *Leadership Alliance Summer Research-Early Identification Program (SR-EIP)*

2016-present Faculty Mentor for *Leadership Alliance First Year Research Experience Program (FYRE)*

Filipe Peres (Universidade Federal do Rio Grande do Sul, Brazil) (01/2014-12/2014): *Brazil Scientific Mobility Program*

Shekinah Phillips (Agnes Scott College, GA) (06/2014-08/2014): *BP-ENDURE*

Elyce Williams (Hunter College, NY) (06/2015-08/2015): *BP-ENDURE*

Nadira Rodriguez (University of Puerto Rico) (06/2015-08/2015): *SR-EIP*

Micah Holness (Xavier University, LA) (06/2016-2019): *FYRE*

Jin Ke (Peking University, China) (06/2020-08/2021)

Yifan Luo (Tsinghua University, China) (06/2020-08/2021)

Xinyu Wang (Tsinghua University, China) (06/2020-08/2021)

Isaiah Cisneros (Heritage University, WA (06/2020-present ): *FYRE*

Dana Joe (Claflin University, SC) (06/2022-present ): *FYRE*

Madeline Duval (Connecticut Collage, CT) (06/2022-present ): *Research Enhancement Award*

Alexandra Mateo (Connecticut Collage, CT) (06/2022-present): *Research Enhancement Award*

Sandy Doan (Connecticut Collage, CT) (06/2022-present): *Research Enhancement Award*

Harry Steinharter (Connecticut Collage, CT) (06/2022-present): *Research Enhancement Award*

Nicole Voang (University of Birmingham, U.K) (07/2022-present): *Global Research Award*