

## CURRICULUM VITAE

### Joy Jia Geng

#### Contact information

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#### Education

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2003 Ph.D., Department of Psychology, Carnegie Mellon University and the Center for the Neural Basis of Cognition. Supervisor: Dr. Marlene Behrmann  
1997 B.A., magna cum laude, Department of Psychology, Cornell University.  
Thesis supervisor: Dr. Michael Spivey

#### Professional Positions

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2022- Vice Chair for Undergraduate Education, Department of Psychology, University of California Davis, Davis CA.  
2020- Professor, Department of Psychology and Center for Mind and Brain, University of California Davis, Davis CA.  
2013-20 Associate Professor, Department of Psychology and Center for Mind and Brain, University of California Davis, Davis CA.  
2008-13 Assistant Professor, Department of Psychology and Center for Mind and Brain, University of California Davis, Davis CA.  
2007-08 Postdoctoral Researcher, Center for Mind and Brain, University of California Davis, Davis, CA.  
2003-06 Postdoctoral Fellow, Institute of Cognitive Neuroscience, University College London, London, UK.  
1997-03 Graduate student, Department of Psychology and CNBC, Carnegie Mellon University, Pittsburgh, PA.  
1995-97 Research Assistant, Department of Psychology, Cornell University, Ithaca NY

#### Honors and Awards

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2022 Member, International Neuropsychological Symposium  
2022 Fellow, Munich CAS Fellowship  
2020 Fellow, Association for Psychological Science  
2018 Fellow, Psychonomic Society  
2013 Social Sciences Dean's Innovation Award  
2010 Hellman Fellow  
2003-06 Royal Society International Postdoctoral Fellowship  
2002 APA Science Directorate Dissertation Research Award  
2001-03 NSF IGERT training grant, Center for the Neural Basis of Cognition  
1998-01 National Defense Science and Engineering Graduate Fellowship  
2001 Phi Kappa Phi, Carnegie Mellon University  
1997 Phi Beta Kappa, Cornell University  
1996 Psi Chi, Cornell University

#### Mentored awards of Trainees (last 5 years)

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2024 Makayla Souza, T32 Vision Sciences Training Grant  
2024 Makayla Souza and Shea Duarte, Vision Sciences Society NEI Travel Grant  
2023 Elizabeth Hall, UCOP Dissertation Fellowship  
2023 Shea Duarte, NIH NRSA F31 MH133270  
2022 Diana Wei, Department of Psychology Spring Conference Best Undergraduate Poster

- 2022 Philip Witkowski, Vision Sciences Society Travel Award  
2021 Philip Witkowski, Best Poster Award at UNSW Workshop on Expectation, Perception & Cognition  
2021 Xinger Yu, UC Davis Psychology Dissertation Award  
2021 Shea Duarte, UC Davis Psychology Diverse Mentoring Initiative Graduate Student Mentorship Award  
2021 Phillip Witkowski, 1st Award for Best Talk, UCD Annual Psychology Conference  
2021 Phillip Witkowski, Elsevier/Vision Research Travel Award to Vision Sciences Society  
2021-22 Shea Duarte, NIH LaMP T32 Training Program  
2021 Shea Duarte, Honorable mention, NSF GRFP  
2020-23 Elizabeth Hall, NDSEG Graduate Fellowship  
2020 Jocelyn Huerta, Provost's Undergraduate Fellowship  
2020 Shea Duarte, UC Davis Psychology Graduate Student Mentorship Award  
2019-21 Shea Duarte, Eugene Cota-Robles Provost Fellowship

### **Current and Recent Research Support (last 5 years)**

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ONR N000142412325 (PI: Charan Ranganath, role: co-I) 05/2024 – 04/2027  
ONR

Dynamic Cortico-Hippocampal Interactions for Flexible Goal-Driven Agents

1R01MH135266 (PI: Julie Schwitzer, role: MPI) 09/2024 – 08/2029  
NIMH/NIH

Quantification of Distraction in Academic settings: A Translational Approach

James S. McDonnell Foundation (PI: Geng) 09/2020 - 08/2024  
Center for Mind and Brain

Leveraging virtual reality to unlock interactions between visual attention and memory in children and adults.

1 R01 MH113855-01 (PI: Geng) 04/2018 – 03/2023  
NIMH/NIH

Quantifying the Attentional Template

R33 MH110043 (PI: Schweitzer, role co-I) 02/2017 – 01/2022  
NIH

Virtual Reality Attention Management Program for Improving Attention in Children

R01 MH076226 (PI: Luck, role: co-I) 02/2015 – 11/2020  
NEI/NIH

Active Maintenance and Cognitive Operations in Visual Working Memory

### **Professional Service**

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- 2023 PB&R Editor search committee  
2021-25 Member, NIH HCMF study section  
2021- 22 Associate Editor, Attention Perception & Psychophysics  
2020 Guest editor, eLife  
2020 Panel member, APS Student and Early Career Webinar Series  
2020- Consulting editor, Psychonomic Bulletin and Review  
2015-21 Ad hoc member, NIH study sections (CP, F02B)  
2019- Consulting editor, JEP: HPP  
2018 Guest editor, special issue in Current Opinion in Psychology  
2013-28 National Science Foundation, panel member  
2011-25 Associate Editor: PLoS ONE  
2013 Guest Associate Editor: Frontiers in Human Neuroscience

### Journal Reviews

*Journal of Experimental Psychology: Human Perception and Performance, Psychonomic Bulletin and Review, Attention Perception and Psychophysics, Current Biology, PNAS, Journal of Cognitive Neuroscience, Journal of Neuroscience, Cortex, Nature Human Behavior, eLIFE, Visual Cognition, Journal of Experimental Psychology: General, Journal of Experimental Psychology: Learning Memory and Cognition, Neuropsychologia, Cognition, Cognitive Psychology, Current Opinion in Psychology, Cerebral Cortex, Journal of Vision, TICS*

### Memberships

Vision Sciences Society, Society for Neuroscience, Psychonomic Society, Association for Psychological Science, SPARK Society

### Major Department and University Service (last 5 years)

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2024	Center for Neuroscience Director Search Committee
2022-	Vice Chair for Undergraduate Education, Department of Psychology
2020-22	Perception Cognition and Cognitive Neuroscience Area Head and associated committees
2022	Department Chair Recruitment Advisory Committee
2019-21	CMB Advisory committee
2020-21	Neuro grad group advisory committee
2019-21	Member, Grad Council
2019-21	Chair, Graduate Student Postdoctoral Scholar Welfare Committee
2019-20	Interim director, Cognitive Science Undergraduate Program

### Published Articles in Peer Reviewed Journals

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1. Ngiam W, Geng JJ, Shomstein S. (2024) Editorial for Attention, Perception, & Psychophysics. *Atten Percept Psychophys*. Oct 31. doi: 10.3758/s13414-024-02973-9.
  2. Zhou and Geng (2025). Preparatory attentional templates in prefrontal and sensory cortex encode target-associated information. *eLife*.
  3. Duarte, S. Ghetti, S., Yonelinas, A., Geng, J.J. (2024). Multisensory processing impacts memory for objects and their sources. *Memory and Cognition*. Jun 3. doi: 10.3758/s13421-024-01592-x. Online ahead of print.
  4. Hall, E.A., and Geng, J.J. (2024) Object-based attention during scene perception elicits boundary contraction in memory. *Memory and Cognition*. Mar 26. doi: 10.3758/s13421-024-01540-9. Online ahead of print.
  5. Liesefeld HR, Lamy D, Gaspelin N, Geng JJ, Kerzel D, Schall JD, Allen HA, Anderson BA, Boettcher S, Busch NA, Carlisle NB, Colonius H, Draschkow D, Egeth H, Leber AB, Müller HJ, Röer JP, Schubö A, Slagter HA, Theeuwes J, Wolfe J. (2024) Terms of debate: consensus definitions to guide the scientific discourse on visual distraction. *Attention, Perception, & Psychophysics*. Jan 4. doi: 10.3758/s13414-023-02820-3. \*best paper of the year award
  6. Yu X., Rahim R., and Geng J.J. (2024). Task-adaptive changes to the target template in response to distractor context: Separability versus similarity. *Journal of Experimental Psychology: General*, Feb;153(2):564-572. doi: 10.1037/xge0001507
  7. Zhou Z. and Geng, J.J., (2024) Learned associations serve as target proxies during difficult but not easy visual search. *Cognition*, Jan;242:105648. doi: 10.1016/j.cognition.2023.105648.
  8. Witkowski, P.P. and Geng, J.J. (2023) Prefrontal cortex codes representations of target identity and feature uncertainty. *Journal of Neuroscience*, Dec 13;43(50):8769-8776. doi: 10.1523/JNEUROSCI.1117-23.2023.
  9. Yu, X., Zhou Z., Becker S.I., Boettcher, S.E.P., Geng, J.J. (2023). *Trends Cognitive Science*, 27(4):391-403. PMID: 36841692s. doi: 10.1016/j.tics.2023.01.007.
  10. Duarte, S., Ghetti, S. and Geng, J.J. (2023). Object memory is multisensory: Task-irrelevant sounds improve recollection-based recognition memory. *Psychonomic Bulletin & Review*.

11. Witkowski, P.P. and Geng, J.J. (2023). Attentional priority is determined by predicted feature distributions. *Journal of Experimental Psychology: Human Perception and Performance*. Nov;48(11):1201-1212. doi: 10.1037/xhp0001041.
12. Nah, J. and Geng, J.J. (2022). Thematic object pairs produce stronger and faster grouping than taxonomic pairs. *Journal of Experimental Psychology: Human Perception and Performance*, 49(12):1325-1335. doi: 10.1037/xhp0001031.
13. Yu, X., Johal, S. K., & Geng, J. J. (2022). Visual search guidance uses coarser template information than target-match decisions. *Attention, Perception, & Psychophysics*. Jul;84(5):1432-1445. doi: 10.3758/s13414-022-02478-3.
14. Wöstmann, M. Störmer, V.S., Obleser, J., Addleman, D.A., Andersen, S.K., Gaspelin, N., Geng, J.J., Luck, S.J., Noonan, M.P., Slagter, H.A., and Theeuwes, J. (2021) Ten simple rules to study distractor suppression, *Progress in Neurobiology*. Jun;213:102269. doi: 10.1016/j.pneurobio.2022.102269.
15. Stokes, J.D., Rizzo, A., Geng, J.J., Schweitzer, J.B. (2022). Measuring attentional distraction in children with ADHD using virtual reality technology with eye-tracking. *Frontiers Virtual Reality*. Mar;3:855895. doi: 10.3389/frvir.2022.855895
16. Hansmann-Roth, S., Thorsteinsdottir, S. Geng, J.J., Kristjansson, A. (2022). Temporal integration of feature probability distributions. *Psychological Research*.
17. Hahn, B., Robinson, B.M. Kiat, J.E., Geng, J.J., Bansal, S., Luck, S.J., Gold, J.M. (2022). Impaired filtering and hyperfocusing: Neural evidence for distinct selective attention abnormalities in people with Schizophrenia. *Cerebral Cortex*.
18. Geng, J.J. and Duarte, S.E. (2021). Unresolved issues in distractor suppression: Proactive and reactive mechanisms, implicit learning, and naturalistic distraction. *Visual Cognition*. Commentary in response to Luck, Gaspelin, Folk, Remington, & Theeuwes.
19. Yu, X, Hanks, T.D., and Geng, J.J. (2022). Attentional guidance and match decisions rely on different template information during visual search. *Psychological Science* 33(1), 105-120.
20. Won, B., Venkatesh, A., Witkowski, P.P., Banh, T., Geng, J.J. (2022s). Memory precision for salient distractors decreases with learned suppression. *Psychonomic Bulletin & Review*.
21. Won, B., Forloines, M., Zhou, Z., & Geng, J. J. (2020). Changes in visual cortical processing attenuate singleton distraction during visual search. *Cortex*, 132:309-321.
22. Won, B., and Geng, J.J. (2020). Passive exposure attenuates distraction during visual search. *Journal of Experimental Psychology: General*, 149(1):1987-1995.
23. Won, B., Haberman, J., Bliss-Moreau, E., and Geng, J.J., (2020). Flexible target templates improve visual search accuracy for faces depicting emotion. *Attention, Perception, & Psychophysics*, 82(6):2909-2923.
24. Lee, J. and Geng, J.J. (2019). Flexible weighting of target features based on distractor context. *Attention, Perception, and Psychophysics*.
25. Witkowski, P.P., and Geng, J.J. (2019). Learned feature variance is encoded in the target template and drives visual search. *Visual Cognition*, 27(5-8), 487-501.
26. Geng, J.J., Won, B-Y, Carlisle, N. (2019). Distractor ignoring: strategies, learning, and passive filtering. *Current Directions in Psychological Science*.
27. Yu, X., and Geng, J.J., (2019). The attentional template is shifted and asymmetrically sharpened by distractor context. *Journal of Experimental Psychology: Human Perception and Performance*, 45(3):336-353.
28. Ashinoff, B.K., Geng, J.J., Mevorach, C. (2019). Delayed reactive distractor suppression in aging populations. *Psychology and Aging*, 34 (3):418:430.
29. Geng, J.J. and Witkowski, P.W. (2019). Template-to-distractor distinctiveness regulates visual search efficiency. *Current Opinion in Psychology*. Oct;29:119-125.
30. Won, B.Y., Kosoyan, M., Geng, J.J. (2019). Evidence for second-order singleton suppression based on probabilistic expectations. *Journal of Experimental Psychology: Human Perception and Performance*, 45(1): 125-138.
31. Lee, J., Leonard, C.J., Luck, S.J., Geng, J.J., (2018). Dynamics of feature-based attentional selection during color-shape conjunction search. *Journal of Cognitive Neuroscience*, 31:1-15.
32. Fink, L.K., Hurley, B.K., Geng, J.J., Janata, P. (2018). A linear oscillator model predicts dynamic temporal attention and pupillary entrainment to rhythmic patterns. *Journal of Eye Movement Research*, 11(2).

33. Bansal, S., Robinson, B.M., Geng, J.J., Leonard, C.J., Hahn, B., Luck, S.J., Gold, J.M. (2018). The impact of reward on attention in schizophrenia. *Schizophrenia Research: Cognition*.
34. Abu-Akel, A., Apperly, I., Spaniol, M., Geng, J., and Mevorach, C. (2018) Diametric effects of autism tendencies and psychosis proneness on attention control irrespective of task demands. *Scientific Reports*.
35. Chechlacz, M., Hansen, P.C., Geng, J.J. Cazzoli, D. (2018) Polarity-dependent effects of biparietal tDCS on the interplay between target location and distractor saliency in visual attention. *Journal of Cognitive Neuroscience*
36. Won, B. and Geng, J.J. (2018). Learned suppression for multiple distractors in visual search *Journal of Experimental Psychology: Human Perception and Performance*
37. Geng, J.J., DiQuattro, N.E., Helm, J. (2017). Distractor Probability Changes the Shape of the Attentional Template. *Journal of Experimental Psychology: Human Perception and Performance*. [epub ahead of print]. PMID: 28425732. doi: 10.1037/xhp0000430
38. DiQuattro, N.E. and Geng, J.J. (2017). Pre-saccadic target competition attenuates distraction. *Attention, Perception, & Psychophysics*. doi: 10.3758/s13414-017-1288-7
39. Lee, J. and Geng, J. (2017) Idiosyncratic patterns of representational similarity in prefrontal cortex predict attentional performance. *Journal of Neuroscience*.
40. Van Diepen, R., Miller, L.M., Mazaheri, A., and Geng, J.J. (2016). The role of alpha activity in spatial and feature-based attention. *eNeuro*.
41. Geng, J.J., Blumenfeld, Z, Tyson, T.L., Minzenberg, M.J. (2015). Pupil diameter reflects uncertainty in attentional selection during visual search. *Frontiers in Human Neuroscience*.
42. Stankevich, B., Geng, J.J. (2014). The modulation of reward priority by top-down knowledge. *Visual Cognition (special issue: Reward Guides Visual Attention: Selection, Learning and Motivation)*.
43. Vossel, S., Geng, J.J., Friston, K. (2014) Attention, predictions and expectations, and their violation: attentional control in the human brain, *Front. Hum. Neurosci.* **8**:463. doi: 10.3389/fnhum.2014.00463
44. Stankevich, B., Geng, J.J. (2014). Reward associations and spatial probabilities produce additive effects on attentional selection, *Attention, Perception, & Psychophysics*.
45. Geng, J.J., (2014). Attentional mechanisms of distractor suppression. *Current Directions in Psychological Science*. **23**: 147-153.
46. Minzenberg, M.J., Gomes, G.C., Yoon, J.H., Watrous, A.J., Geng, J.J., Firl, A.J., Carter, C.S. (2014). Modafinil Augments Oscillatory Power in Middle-Frequencies During Rule Selection", *Psychophysiology*.
47. Lockhart S.N., Roach A.E. Luck, S.J, Geng, J., Beckett L., Carmichael, O., Decarli C. (2013). White matter hyperintensities are associated with visual search behavior independent of generalized slowing in aging. *Neuropsychologia*.
48. Geng, J.J., and Vossel, S. (2013). Re-evaluating the role of TPJ in attentional control: contextual updating? *Neuroscience and Biobehavioral Reviews*, **37**(10 pt 2): 2608-20.
49. Isham, E.A., and Geng, J.J. (2013). Looking time predicts choice but not aesthetic value. *PLoS ONE*, **16**; **8**(8):e71698.
50. DiQuattro, N.E., Sawaki, S., and Geng, J.J. (2013). Effective connectivity during feature-based attentional capture: Evidence against the attentional reorienting hypothesis of TPJ. *Cerebral Cortex*.
51. Vossel S., Geng, J.J., Fink, G. (2013). Dorsal and Ventral Attention Systems: Distinct Neural Circuits but Collaborative Roles. *The Neuroscientist*.
52. Geng, J.J., Soosman, S. Sun, Y., DiQuattro, N.E., Stankevich, B., Minzenberg, M. (2012). A match made by modafinil: probability matching in choice decisions and spatial attention. *Journal of Cognitive Neuroscience*, **25**(5):657-69. Epub 2012 Nov 28.
53. Sawaki, R., Geng, J. J., & Luck, S. J. (2012). A common neural mechanism for preventing and terminating the allocation of attention. *The Journal of Neuroscience*, **32**(31):10725-36.
54. DiQuattro, N.E. and Geng J.J. (2011). Contextual knowledge configures attentional control networks. *The Journal of Neuroscience*, **31**(49):18026-35.
55. Isham, E., and Geng, J.J. (2011). Rewarding Performance Feedback Alters Reported Time of Action. *Consciousness and Cognition*, **20**(4):1577-85.

56. Mazaheri, A., DiQuattro, N.E., Bengson, J., Geng, J.J. (2011). Pre-stimulus activity predicts the winner of top-down vs. bottom-up attentional selection. *PLoS ONE*, 6(2):e16243.
57. Rotshtein, P., Soto, D., Grecucci, A., Geng, J.J., Humphreys, G.W. (2010). The role of the pulvinar in resolving competition between memory and visual selection: A functional connectivity study. *Neuropsychologia*, 49(6):1544-52.
58. Geng, J.J. and Mangun, G.R. (2010) Right temporoparietal junction activation by a salient contextual cue facilitates target discrimination. *NeuroImage*, 54(1):594-601.
59. Geng, J.J. and DiQuattro, N.E. (2010). Attentional capture by a perceptually salient non-target facilitates target processing through inhibition and rapid-rejection. *Journal of Vision*, 10(6):5.
60. Geng, J.J. and Mangun, G.R. (2009). The Anterior Intraparietal Sulcus is Sensitive to Bottom-Up Attention Driven by Stimulus Saliency. *Journal of Cognitive Neuroscience*, 21(8):1584-601.
61. Geng, J.J., Ruff, C., and Driver, J. (2009). Saccades to a remembered location elicit spatially-specific activation in human retinotopic visual cortex. *Journal of Cognitive Neuroscience*, 21(2):230-45.
62. Rotshtein P., Geng, J.J., Driver, J. and Dolan, R. (2007). Role of features and second-order relations in face discrimination, face recognition, and individual face skills: Behavioral and fMRI data. *Journal of Cognitive Neuroscience*, 19(9): 1435-52.
63. Geng, J.J., Eger, E., Ruff, C., Kristjansson, A., Rotshtein, P. and Driver, J. (2006). On-line attentional selection from competing stimuli in opposite visual fields: Effects on human visual cortex and control processes. *Journal of Neurophysiology*, 96(5): 2601-12.
64. Geng, J.J. and Behrmann, M. (2006). Competition between simultaneous stimuli modulated by location probability in hemispatial neglect. *Neuropsychologia* 44(7): 1050-60.
65. Friston, K.J., Rotshtein, P., Geng, J.J., Sterzer, P., Henson, R.N. (2006). A critique of functional localisers. *NeuroImage* 30(4): 1077-87.
66. Geng, J.J. and Behrmann, M. (2005). Spatial probabilities as an attentional bias in visual search. *Perception and Psychophysics* 67(7): 1252-68.
67. Behrmann, M., Geng, J.J., and Shomstein, S. (2004). Parietal cortex and attention. *Current Opinion in Neurobiology*, 14:212-217.
68. Geng, J.J. and Behrmann, M. (2002). Probability cueing of target location facilitates visual search implicitly in normal participants and patients with hemispatial neglect. *Psychological Science*. 13(6) 520-5.
69. Spivey, M. & Geng, J. (2001). Oculomotor mechanisms triggered by imagery and memory: Eye movements to absent objects. *Psychological Research*, 65(4): 235-241.

### Book Chapters

1. Mangun, G.R., Liu, Y. Bengson, J.J., Fannon, S.P., DiQuattro, N.E., and Geng, J.J. (2016). Neuroimaging Approaches to the Study of Visual Attention. In M. Filippi (Ed). *fMRI Techniques and Protocols (2nd edition)*. Humana Press, Inc.
2. Associate editor for Werner, J. and Chalupa, L. (2014). *The New Visual Neurosciences*. MIT Press, Cambridge, MA.
3. Mangun, G.R., Fannon, S.P., Geng, J.J., and Saron, C.D (2009). Imaging Brain Attention Systems: Control and Selection in Vision. In M. Filippi (Ed). *fMRI Techniques and Protocols*. Humana Press, Inc.
4. Behrmann, M., Geng, J. J. and Baker, C. I. (2005). Acquisition of long-term visual representations: Psychological and neural mechanisms. In N. Ohta, C. Macleod and B.Uttl (Eds) *Dynamic cognitive processes: The Fifth Tsukuba International Conference*. Tokyo, Springer Verlag, p11-36.
5. Behrmann, M. and Geng, J.J. (2005). Attention. In E.E. Smith and S.M. Kosslyn (Eds.). *Cognitive Psychology: Mind and Brain*. Prentice Hall, NY.
6. Geng, J.J. and Behrmann, M. (2003). Selective visual attention and visual search: Behavioral and neural mechanisms. In B.Ross and D. Irwin (Eds.). *The Psychology of Learning and Motivation* vol. 42, Academic Press, NY.

- Behrmann, M., & Geng, J.J. (2002). What is 'left' when all is said and done? Spatial coding and hemispatial neglect. In H. O. Karnath, D. Milner and G. Vallar (Eds.). *The Cognitive and Neural Bases of Neglect*. Oxford University Press, Oxford.

### Conference Abstracts

- Wei, D., Zhou, Z, and Geng, J.J. (2024) A common feature improves guidance efficiency during hybrid search. Poster. Vision Sciences Society, St. Pete, FL.
- Souza-Wiggens, M. and Geng, J.J. (2024) Semantically related objects act as spatial predictors during visual search. Poster. Vision Sciences Society, St. Pete, FL.
- Duarte, S. and Geng, J.J. (2024) Shopping at Eye-KEA: Assessing the hierarchy of visual search priorities in a virtual furniture store. Talk. Vision Sciences Society, St. Pete, FL.
- Hall, E.A. and Geng, J.J. (2023). Object-based attention during scene perception elicits boundary contraction in memory. Talk. Vision Sciences Society, St. Pete, FL.
- Yu, X., Rahim, R., Geng, J.J. (2023). Shifting target representations away from distractor features is task-adaptive. Poster. Vision Sciences Society, St. Pete, FL.
- Zhou, Z., Yu, X., and Geng, J.J. (2022). Attention is guided by non-diagnostic target features. OPAM poster, Boston MA
- Yu, X., Zhou, Z., and Geng, J.J. (2022). Good enough attentional guidance during visual search. OPAM talk, Boston MA
- Duarte, S. and Geng, JJ (2022). Recollection of object-identity is enhanced by multisensory events. Psychonomics talk, Boston MA
- Zhou Z and Geng, J.J. (2022) Learned associations bias the contents of the attentional template during visual search. Vision Sciences Society. Poster
- Duarte SE and Geng J.J. (2022) Multisensory processing supports deep encoding of visual objects. Vision Sciences Society. Talk.
- Witkowski, P and Geng, J.J. Representations of Predicted Uncertainty in Prefrontal and Sensory Cortex Prior to Search. Vision Sciences Society. Poster.
- Witkowski, PW and Geng, J.J. (2021). USNW Workshop on Expectation, Perception, & Cognition
- Hall, E.H. and Geng, J.J. (2021). Thematic object relationships are judged as stronger than taxonomic relations in a two-alternative forced choice task. OPAM. Virtual talk.
- Duarte, S.E. and Geng, J.J. (2021). Multisensory enhancement of recollection-based recognition memory. Psychonomic Society. Virtual poster.
- Yu, X. and Geng, J.J. (2021). Visual search guidance uses coarser template information than match decisions. Psychonomic Society, Virtual talk.
- Hall, E.H. and Geng, J.J. (2021). Co-occurrence statistics from vision and language capture thematic relationships between objects. Vision Sciences Society. Virtual poster.
- Witkowski, P.E., and Geng, J.J. (2021). Information Value Underlies Priority in Feature Based Attention. Vision Sciences Society. Virtual poster.
- Hansmann-Roth, S., Thorsteinsdottir, S., Geng, J.J., Kristjansson, A. (2021). Temporal integration of feature probability distributions in visual working memory. Vision Sciences Society. Virtual poster.
- Duarte, S.E. and Geng, J.J. (2021). The Impact of Multisensory Perception on Incidental Visual Memory. Vision Sciences Society. Virtual poster.
- Witkowski P. and Geng, J.J. (2020). Feature uncertainty is tracked by predictive attentional templates Vision Sciences Society. Virtual poster.
- Nah, J. and Geng, J.J. (2020). The Influence of Taxonomic and Thematic Object Relationships on Attentional Allocation. Vision Sciences Society. Virtual and live talk.
- Won, B-Y. and Geng, J.J. (2020). Memory for a Salient Distractor is Suppressed by Past Experiences. Vision Sciences Society. Virtual poster.
- Won, BY and Geng, J.J. (2019). Passive suppression of distractors in visual search. Vision Sciences Society. St. Pete, FL. Talk.
- Witkowski, P.W. and Geng, J.J. (2019). Learned feature variability predicts visual search and working memory precision. Vision Sciences Society. St. Pete, FL. Poster.

25. Won, BY and Geng, J.J. (2019). Passive suppression of distractors in visual search. Cognitive Neuroscience Society. San Francisco, CA. Talk.
26. Witkowski, P and Geng JJ (2019). Cognitive Neuroscience Society, poster with flash talk
27. Won, BY and Geng, J.J. (2018). A template for multiple distractors in visual search. Vision Sciences Society. St. Pete, FL. Poster.
28. Yu, Xinger, BY and Geng, J.J. (2018). Distractor context shifts and sharpens the target template. Vision Sciences Society. St. Pete, FL. Oral.
29. Won, BY and Geng, J.J. (2017). A suppression template for multiple distractors in visual search, Vision Sciences Society. St. Pete, FL. Oral.
30. Witkowski, P. and Geng, J.J. (2017) Ensembles Increase Search Efficiency When Predictive of Target Location, Vision Sciences Society. St. Pete, FL. Poster.
31. Lee, J. and Geng, J.J. (2016). Idiosyncratic patterns of representational similarity in prefrontal cortex predict attentional performance. Vision Sciences Society. St. Pete, FL.
32. Geng, J., DiQuattro, Helm, J (2016). Distractor probability modulates tuning of target representations. Vision Sciences Society. St. Pete, FL.
33. Abu-Akel, A., Apperly, I., Spaniol, M., Geng, J., Mevorach, C. (2016). Context-driven benefits: Saliency-based selection as a function of autism and psychosis traits. Vision Sciences Society. St. Pete, FL.
34. Ashinoff, B, Geng, J., Fhman, F., Carruthers, C., Maler, D., Mevorach, C. (2016). The contribution of the left posterior parietal cortex to proactive and reactive cognitive control. Vision Sciences Society. St. Pete, FL.
35. Lee, J. Leonard, C., Luck, S.J., and Geng, J.J. (2015). Expectancies about target-similar distractors impact target selection Nanosymposium. Society for Neuroscience, Chicago, IL.
36. Lee, J., and Geng, J.J. (2015). The representational similarity of face morphs predicts performance in an independent visual search task. Society for Neuroscience, Chicago, IL.
37. Lee, J. Leonard, C., Luck, S.J., and Geng, J.J. (2015). Expectancies about the frequency of a target-similar distractor type impacts target selection. Vision Sciences Society, St. Pete, FL.
38. Stankevich, B. Krisjansson, A. and Geng, J.J. (2015). Reward- and space-based repetition priming is weighted by task relevance. Vision Sciences Society, St. Pete, FL.
39. Lee, J. and Geng, J.J. (2014). Effects of Feature and Categorical Similarity on the Time Course of Spatial Attention. Vision Sciences Society, St. Pete, FL.
40. DiQuattro, N.E., and Geng. J.J. (2014). Attenuation of distractor-bound saccades. Vision Sciences Society, St. Pete, FL.
41. Blumfeld, Z., Tyson, T., Geng J.J. (2013). Pupil size reflects the strategic allocation of spatial attention. Vision Sciences Society, Naples, FL.
42. Isham, E.A., Geng J.J. (2013). Visual fixation parameters predict decisional outcomes better than preference. Vision Sciences Society, Naples, FL.
43. Collins, T., Geng, J.J., (2013). Translational pattern discovery: evidence of a two-stage global/local strategy. Vision Sciences Society, Naples, FL.
44. Stankevitch, B., Geng, J.J., (2013). Task information overrides attentional capture by reward-associated stimuli. Vision Sciences Society, Naples, FL.
45. Blumenfeld, Z. and Geng, J.J. (2013). Pupil size indicates level of probability-related uncertainty in attentional control. Undergraduate Research, Scholarship and Creative Activities Conference. Davis, CA.
46. Puhger, K., Stankevich, B., and Geng, J.J. (2013). Reward and salience: The competition for attentional selection. Undergraduate Research, Scholarship and Creative Activities Conference. Davis, CA.
47. Tyson, T.L., and Geng, J.J. (2013). The association of the locus coeruleus and error processing using pupillometry. Undergraduate Research, Scholarship and Creative Activities Conference. Davis, CA.
48. Lockhart, S.N. Roach, A.E., Luck, S.L., Geng J., Beckett, L., Carmichael, O. DiCarli, C. (2013). White matter hyperintensities are associated with hyperactivation independent of age during cue-guided spatial search. International society of vascular behavioral and cognitive disorders.



49. DiQuattro, N.E., Sawaki, R., Geng, J.J., (2012). Attention network dynamics in response to target-similar distractor. Vision Sciences Society. Naples, FL.
50. Geng J.J., DiQuattro, N.E., Isham, E., Sawaki, R., Rotshtein, P. (2012). Distracter rejection depends on mechanisms of attentional shifting. Vision Sciences Society. Naples, FL.
51. Geng, J.J., and DiQuattro, N.E. (2012). Attentional control networks involved in processing target-similar distracters. Organization for Human Brain Mapping. Beijing, China.
52. Isham, E.A., Banks, W.P., & Geng, J.J. (2011, November). *Perceptual biases in reading the analog clock influence the perceived time of action: Free will may not be illusory after all*. Poster presentation at the annual meeting for Object Perception, Attention, and Memory (OPAM), Seattle, WA.
53. Blumenfeld, Z. and Geng, J.J. (2012). Individual differences in attentional control. UC Davis Undergraduate Research, Scholarship and Creative Activities Conference. Davis, CA.
54. Chahal, R., and Geng J.J. (2012). Reward modulation of attentional selection. UC Davis Undergraduate Research, Scholarship and Creative Activities Conference. Davis, CA.
55. Gwinn, R.E., Isham, E., and Geng, J.J. (2012). Confirmation bias in binary choice. UC Davis Undergraduate Research, Scholarship and Creative Activities Conference. Davis, CA.
56. Isham, E.A., Banks, W.P., & Geng, J.J. (2011). Representational Momentum Influences the Perceived Time of Action. Bay Area Vision Research Day, Berkeley, CA.
57. Isham, E.A., Geng, J.J., Disbrow, E.A. (2010) Action Time is Retrospectively Inferred in Healthy Volunteers and Parkinsonians. Psychonomic Society, St. Louis MO.
58. Isham, E.A., Copara, M., DiQuattro, N., Chang, A., Pattel, D., Mineyev, S., Aarons, B., Geng, J., Ekstrom, A. (2010). Independent and Conjunctive Processing of Spatial and Temporal Information in Episodic Memory. Society for Neuroscience, San Diego, CA, USA.
59. Geng, J.J., DiQuattro, N.E., Monlux, K., Minzenberg, M. (2010). Effects of modafinil on behavioral choice and attentional selection. Society for Neuroscience, San Diego, CA, USA.
60. DiQuattro, N.E. and Geng, J.J. (2010). Performance improving salient distractor activates left temporo-parietal junction in visual search. Society for Neuroscience, San Diego, CA, USA.
61. Monlux K., Nuneaz-Perea, J., DiQuattro, N., Geng, J.J., (2010). Effects of Modafinil on Behavioral Choice. UC Davis Undergraduate Research Forum. Davis, CA, USA.
62. Mazaheri, A., DiQuattro, N., Bengson, J. and Geng, J.J. (2010). Top-down vs. bottom-up attentional processes : pre-stimulus theta activity could predict the winner. Organization of Human Brain Mapping, Barcelona, Spain.
63. Rotshtein, P., Soto, D., Alex Grecucca, A., Geng, J.J. and Humphreys, G. (2010). The mediating role of pulvinar is response to distracters. Organization of Human Brain Mapping, Barcelona, Spain.
64. Geng, J.J. and Mangun, G.R. (2009). The posterior superior temporal sulcus is sensitive to the co-occurrence of a target and salient distractor in opposite visual fields. Human Brain Mapping. San Francisco, CA, USA.
65. Geng, J.J. and DiQuattro, N. (2009). Attentional capture by a salient non-target improves target selection. Vision Sciences Society. Ft. Myers, Florida, USA.
66. Geng, J.J. and Mangun, G.R. (2007). Spatial attentional selection in the presence of irrelevant stimulus salience. Talk presented at the Society for Neuroscience. San Diego, California, USA.
67. Geng, J.J., Ruff, C., Driver, J. (2006). Spatially specific activations in visual cortex during planning and execution of saccades. Poster presented at the annual meeting of the Organization for Human Brain Mapping. Florence, Italy.
68. Geng, J.J., Ruff, C., Driver, J. (2006). Saccade-related direction-selective activation in visual cortex. Poster presented at the annual meeting of the Vision Sciences Society. Sarasota, FL, USA.
69. Geng, J. J. & Driver, J. (2005). Competition between stimuli in opposite visual fields. Poster presented at the annual meeting of the Vision Sciences Society. Sarasota, FL, USA.
70. Geng, J.J. & Behrmann, M. (2002). Competition and cooperation in spatial attention: The joint effect of regularity in target location and exogenous cueing. Poster presented at the annual meeting of the Vision Sciences Society. Sarasota, FL, USA.

71. Geng, J.J. & Behrmann, M. (2001). Cueing statistical regularities in hemispatial neglect. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY, USA.
72. Spivey, M.J., Richardson, D.C., and Geng, J.J. (2000). On the relationship between external space and mental space: Eye movements to objects and events that are no longer there. *Attention & Performance XIX*, Munich, Germany.

### Invited Talks

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- 2025 University of California Santa Cruz, Psychology
- 2024 Center for Cognitive Neuroscience Duke University
- 2024 Cognitive Science Colloquium, University of Arizona
- 2023 CPCN Seminar series, Department of Psychology, UCSB
- 2023 Curiosity, Creativity, and Complexity Conference, Zuckerman Institute, Columbia University
- 2022 Symposium on "Visual Statistical Learning and Attention: A Two-Way Street," Psychonomics, Boston MA
- 2022 Faculty colloquium, Department of Psychology, Philipps-Universität Marburg
- 2022 Munich CAS Workshop
- 2022 Department of Experimental Psychology, Oxford University, UK
- 2021 Cognitive and Information Sciences Department colloquium, UC Merced
- 2021 Bay Area Vision Research Day (BAVRD), UC Berkeley
- 2021 University of Hyderabad, India (virtual workshop)
- 2020 Vrije Universiteit Amsterdam
- 2020 Attention & Perception talk series, University of Illinois
- 2020 Neuroscience Graduate Program Seminar Series, Brown University
- 2019 Rovereto Attention Symposium, Rovereto, Italy
- 2019 International Neuropsychological Symposium, Salerno, Italy
- 2018 Visual Search and Selective Attention Workshop, Munich, Germany
- 2017 George Washington University, Department of Psychology
- 2016 UC Davis, Neuroscience Retreat, Tahoe City, CA
- 2016 KAVLI summer institute, Santa Barbara, CA
- 2015 University of California Berkeley, Department of Ophthalmology 2014 San Francisco State University, Psychology Department Colloquium.
- 2014 Center for the Neural Basis of Cognition, Carnegie Mellon University.
- 2014 International Society for Behavioral Neuroscience, Amsterdam, NL.
- 2013 UC Davis, Center for Visual Sciences Symposium
- 2013 University of Birmingham, School of Psychology, UK
- 2013 Stanford University, Laboratory of Behavioral and Cognitive Neurology
- 2012 University of California Berkeley, CBB colloquium
- 2012 Peking University, Department of Psychology
- 2011 University of California Santa Cruz, Department of Psychology
- 2005 Laboratoire de Psychologie Cognitive (UMR-CNRS 6146), Université de Provence, Marseille, France
- 2003 Institute of Cognitive Neuroscience, University College London, UK.