

KIRSTEN ADAM

April 2019

University of California, San Diego
9500 Gilman Drive, Mail Code 0109
La Jolla, CA 92093-0109
858-246-1340 | kadam@ucsd.edu
<https://kirsten-adam.com>

EDUCATION

University of Chicago (UC) Transferred into Ph.D. program Fall 2015 Area: Cognition Advisor: Edward Vogel	Doctor of Philosophy, June 2018
University of Oregon (UO) Admitted to Ph.D. program Fall 2012 Area: Cognitive Neuroscience Advisor: Edward Vogel	Master of Science, April 2014
University of Notre Dame (ND) Major: Biological Sciences Minors: Art History; Glynn Family Honors Program Thesis Advisor: Bradley Gibson	Bachelor of Science, May 2012 Honors: <i>cum laude</i>

EMPLOYMENT

University of California, San Diego (UCSD) Postdoctoral Fellow Department of Psychology & Institute for Neural Computation Advisor: John Serences	August 2018 - Present
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HONORS AND FUNDING AWARDED

Honors

Glushko Dissertation Prize from the Cognitive Science Society (1 of 5 recipients)	2019
Starkey Duncan Award for Excellence in Undergraduate Teaching (UC)	2016

Research Funding

NIMH Postdoctoral Training Fellowship, Institute for Neural Computation (UCSD)	2018, 2019
UROP Summer Funding: Joint College of Arts & Letters and College of Science Grant (ND)	2011
Alumni Internship Assistance Program, awarded for summer undergraduate research (ND)	2010

Travel

The Vision Sciences Society National Eye Institute Postdoctoral Travel Grant	2019
The Vision Sciences Society Elsevier/Vision Research Travel Award (1 of 20 recipients)	2018
Graduate Council Travel Fund (UC)	2017
The Psychonomic Society Graduate Travel Award (1 of 15 recipients)	2016
Graduate Education Committee Conference Travel Grant (UO)	2013, 2014
Undergraduate Research Opportunity Program (UROP) Conference Travel Grant (ND)	2011
DeCenzo Grant for the Study of Art History in Italy (ND)	2010

PUBLICATIONS

Data from all published articles are available on Open Science Framework: <https://osf.io/2ktjd>

* denotes that authors contributed equally to the work

1. Kardan, O., **Adam, K.C.S.**, Mance, I., Churchill, N.W., Vogel, E.K., & Berman, M.G. (pre-print). Distinguishing cognitive effort and working memory load using scale-invariance and alpha suppression in EEG. <https://psyarxiv.com/7q4m8/>
2. Sutterer, D.W.*, Foster, J.J.*, **Adam, K.C.S.**, Vogel, E.K., & Awh, E. (in press). Item-specific delay activity demonstrates concurrent storage of multiple items in working memory. *PLoS Biology*. Pre-print: [doi:10.1101/382879](https://doi.org/10.1101/382879)
3. Hakim, N., **Adam, K.C.S.**, Gunseli, E., Awh, E., & Vogel, E.K. (2019). Dissecting the neural focus of attention reveals distinct processes for spatial attention and object-based storage in visual working memory. *Psychological Science*. [doi:10.1177/0956797619830384](https://doi.org/10.1177/0956797619830384)
4. **Adam, K.C.S.** & Vogel, E.K. (2018). Improvements to visual working memory performance with practice and feedback. *PLOS ONE*, 13(8), e0203279. [doi:10.1371/journal.pone.0203279](https://doi.org/10.1371/journal.pone.0203279)
5. Sprague, T.C., **Adam, K.C.S.**, Foster, J.J., Rahmati, M., Sutterer, D.W., & Vo, V.A. (2018). Inverted encoding models assay population-level stimulus representations, not single-unit neural tuning. *eNeuro*, ENEUR.0098-18.2018. [doi:10.1523/ENEURO.0098-18.2018](https://doi.org/10.1523/ENEURO.0098-18.2018)
Commentary on Liu, Cable, & Gardner (2018) J Neuro.
6. **Adam, K.C.S.**, Robison, M.K., & Vogel, E.K. (2018). Contralateral delay activity tracks fluctuations in working memory performance. *Journal of Cognitive Neuroscience*, 30(9), 1229-1240. [doi:10.1162/jocn_a_01233](https://doi.org/10.1162/jocn_a_01233)
7. Xu, Z.*, **Adam, K.C.S.***, & Fang, X., & Vogel, E.K. (2018). The reliability and stability of visual working memory capacity. *Behavior Research Methods*, 50(2), 576-588. [doi:10.3758/s13428-017-0886-6](https://doi.org/10.3758/s13428-017-0886-6)
8. **Adam, K.C.S.**, Vogel, E.K., & Awh, E. (2017). Clear evidence for item limits in visual working memory. *Cognitive Psychology*, 97, 79-97. [doi:10.1016/j.cogpsych.2017.07.001](https://doi.org/10.1016/j.cogpsych.2017.07.001)
9. **Adam, K.C.S.** & Vogel, E.K. (2017). Confident failures: Lapses of working memory reveal a metacognitive blind spot. *Attention, Perception & Psychophysics*, 79(5), 1506-1523. [doi:10.3758/s13414-017-1331-8](https://doi.org/10.3758/s13414-017-1331-8)
10. **Adam, K.C.S.** & Vogel, E.K. (2016). Reducing failures of working memory with performance feedback. *Psychonomic Bulletin & Review*, 23(5), 1520-1527. [doi:10.3758/s13423-016-1019-4](https://doi.org/10.3758/s13423-016-1019-4)
11. **Adam, K.C.S.** & Vogel, E.K. (2016). Tuning in by tuning out distractions. *Proceedings of the National Academy of Sciences*, 113(13), 3422-3423. [doi:10.1073/pnas.1602037113](https://doi.org/10.1073/pnas.1602037113)
Commentary on Gaspar et al. (2016) PNAS.
12. **Adam, K.C.S.***, Mance, I.*, Fukuda, K., & Vogel, E. K. (2015). The contribution of attentional lapses to individual differences in visual working memory capacity. *Journal of Cognitive Neuroscience*, 27(8), 1601-1616. [doi:10.1162/jocn_a_00811](https://doi.org/10.1162/jocn_a_00811)

13. Foster, J.J.* & **Adam, K.C.S.*** (2014). Is feature-based attention spatially global during visual search? *Journal of Neuroscience*, 34(26), 8862-8864. [doi:10.1523/JNEUROSCI.1616-14.2014](https://doi.org/10.1523/JNEUROSCI.1616-14.2014)
Commentary on Painter et al. (2014) J Neuro.

TALKS

1. Quirk, C., **Adam, K.C.S.**, & Vogel, E.K. Preexisting spatial biases influence the encoding of information into visual working memory. *18th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL, 22 March 2018.
2. **Adam, K.C.S.**, Vogel, E.K., & Awh, E. Decoding the limits of simultaneous storage in working memory. *18th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL, 20 March 2018.
3. Awh, E., Foster, J.J., Sutterer, D., **Adam, K.C.S.** & Vogel, E.K. Spatially selective alpha-band activity degrades with increasing working memory load. *58th Annual Meeting of the Psychonomic Society*, Vancouver, Canada, 9 November 2017.
4. **Adam, K.C.S.** & Vogel, E.K. Attentional lapses drive individual differences in working memory capacity. *24th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA, 28 March 2017.
5. Awh, E., **Adam, K.C.S.**, & Vogel, E.K. Clear evidence for item limits in visual working memory. *57th Annual Meeting of the Psychonomic Society*, Boston, MA, 19 November 2016.
6. **Adam, K.C.S.** Failures of attention and working memory performance. *Invited presentation for the Cognition, Brain, and Behavior group at the University of Notre Dame*, Notre Dame, IN, 14 November 2016.
7. Vogel, E.K., & **Adam, K.C.S.** Lapses in attentional control drive individual differences in working memory capacity. *56th Annual Meeting of the Psychonomic Society*, Chicago, IL, 20 November 2015.
8. **Adam, K.C.S.** Measuring within- and between-trial variability in the precision of visual working memory. *Internal presentation for the Cognitive Brown Bag at University of Chicago*, Chicago, IL, 29 October 2015.
9. **Adam, K.C.S.**, & Vogel, E.K. Pretrial neural indicators of lapses in working memory performance. *44th Annual Meeting of the Society for Neuroscience*, Washington, D.C., 16 November 2014.
10. Gibson, B.S., **Adam, K.C.S.**, & Davis G. Symbolic control of spatial attention: Knowing direction is better than knowing distance. *53rd Annual Meeting of the Psychonomic Society*, Seattle, WA, 18 November 2012.

RECENT POSTERS – Full list available upon request.

1. **Adam, K.C.S.**, Vogel, E.K., & Awh, E. (2017) Decoding the limits of simultaneous storage in working memory. *47th Annual Meeting of the Society for Neuroscience*, Washington, D.C.
2. Foster, J., Sutterer, D., **Adam, K.C.S.**, Vogel, E.K., & Awh, E. (2017) Alpha-band activity reveals concurrent storage of independent locations in spatial working memory. *47th Annual Meeting of the Society for Neuroscience*, Washington, D.C.

3. **Adam, K.C.S.**, Foster, J., Sutterer, D., Vogel, E.K., & Awh, E. (2017) Topography of alpha-band power tracks improvement in working memory precision with repeated encoding. *17th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
4. Hakim, N., **Adam, K.C.S.**, Gunseli, E., & Vogel, E.K. (2017) Sustained spatial attention is not sufficient to elicit the contralateral delay activity. *17th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
5. Sutterer, D., Foster, J., **Adam, K.C.S.**, Vogel, E.K., & Awh, E. (2017) Spatial selectivity of alpha band activity declines with increasing visual working memory load. *17th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
6. **Adam, K.C.S.**, Fang, X., Vogel, E.K., & Xu, Z. (2016) The reliability and stability of change detection capacity estimates. *57th Annual Meeting of the Psychonomic Society*, Boston, MA.
7. **Adam, K.C.S.** & Vogel, E.K. (2016). Working memory capacity predicts the efficiency of transfer into long-term memory. *16th Annual Meeting of the Vision Sciences Society*, St Pete Beach, FL.
8. **Adam, K.C.S.** & Vogel, E.K. (2015). Metaknowledge of working memory performance. *56th Annual Meeting of the Psychonomic Society*, Chicago, IL.
9. Foster, J.F., **Adam, K.C.S.**, Rouder, J.N., & Awh, E. (2015). Distinguishing between low precision and guessing in visual working memory. *56th Annual Meeting of the Psychonomic Society*, Chicago, IL.
10. **Adam, K.C.S.** & Vogel, E.K. (2015). Contralateral delay activity tracks fluctuations in working memory success. *45th Annual Meeting of the Society for Neuroscience*, Chicago, IL

AD HOC REVIEWING

Attention, Perception, & Psychophysics
 Behavior Research Methods
 Cerebral Cortex
 Cognitive Psychology
 Consciousness and Cognition
 Journal of Cognition
 Journal of Cognitive Neuroscience
 Journal of Experimental Psychology: General
 Journal of Experimental Psychology: Human
 Perception and Performance
 Nature Neuroscience
 NeuroImage

Neuron
 Neuropsychologia
 PLOS ONE
 Proceedings of the National Academy of
 Sciences
 Psychiatry Research
 Psychological Bulletin
 Psychological Science
 Psychophysiology
 Scientific Reports
 Visual Cognition

DEPARTMENT SERVICE

- Co-organizer for Cognition Workshop meetings 9/2017 – 6/2018
- Organized internal and external presentations for cognitive area workshops held four times per quarter at the University of Chicago's Department of Psychology.
- Travel and Research Committee 10/2015 – 6/2018
- Reviewed applications for travel and research funds through the Psychology Graduate Student Organization at the University of Chicago.

TEACHING

- Pedagogical Training: Pathways to Scientific Teaching (UCSD) 2019
- A 9-week course for postdoctoral scholars on developing learner-centered instructional materials and teaching strategies (instructor: Dr. Diane Ebert-May).
- Teaching Assistant: Cognitive Psychology (UC, PSYC 20400) 2017
- Ran a weekly discussion section (26 students); guest lecture, "Perception"
- Teaching Assistant: Sensation and Perception (UC, PSYC 20700) 2016
- Ran exam review sessions; held regular office hours; assisted with grading
- Teaching Assistant: Psychological Research Methods (UC, PSYC 20200) 2016
- Ran a weekly lab section (21 students); guest lecture, "Measuring change over time"

PROFESSIONAL AFFILIATIONS

Cognitive Neuroscience Society
Cognitive Science Society
The Psychonomic Society

Society for Neuroscience
Vision Sciences Society