

Curriculum Vitae
Anastasia Kiyonaga

University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093

office phone: 858-822-2820

email: akiyonaga@ucsd.edu

web: <https://www.kiyonagalab.org/>

Appointments

- University of California, San Diego** 2020-
Assistant Professor, Cognitive Science
Affiliated Faculty: Neuroscience Graduate Program; Kavli Institute for Brain and Mind, Institute for Neural Computation
- University of California, Berkeley** 2015-2019
Postdoctoral Fellow, Helen Wills Neuroscience Institute
Advisor: Mark D'Esposito

Education

- Duke University** 2010-2015
Ph.D., Psychology & Neuroscience
Advisor: Tobias Egner
- University of Pennsylvania** 2007-2009
M.S.Ed., Human Development
- University of Virginia** 1999-2003
B.A., Psychology

Extramural Funding

- Pupillary working memory for adaptive perception*
National Institutes of Health 1R01EY036843-01, total costs: \$2,364,336 2025-2029
Role: PI
- Sensory, cognitive, and transcranial neuromodulation of goal representations*
Air Force Office of Scientific Research FA9550-22-1-0230, total costs: \$485,932 2022-2025
Role: PI
- Network properties and causal mechanisms of distractor-resistant working memory (completed)* 2016-2019
NIMH F32MH111204, total costs: \$175,000
Role: PI

Competitive Internal funding

- What are thoughts made of? Dusting for neural fingerprints of internal representations using phenomenology and information-based neuroimaging*
Kavli Institute for Brain and Mind Innovative Research Grants: \$50,000 2022-2023
Role: Co-I (with Lera Boroditsky, Seana Coulson, and PI Ana Chkhaidze)
- Faculty Career Development Program: \$17,000 2022-2023

Publications

My Bibliography and ORCID ID: <https://orcid.org/0000-0002-7586-3447>

* = shared authorship

Preprints & under review

1. Tambini A, Miller JA^{*}, Ehler L, **Kiyonaga A**, & D'Esposito M. Structured memory representations develop at multiple time scales in hippocampal-cortical networks, *bioRxiv*. DOI: [10.1101/2023.04.06.535935](https://doi.org/10.1101/2023.04.06.535935)
2. **Kiyonaga A**, Miller JA & D'Esposito M. Lateral prefrontal cortex controls interplay between working memory and actions. *bioRxiv*. DOI: [10.1101/2024.09.17.613601v1](https://doi.org/10.1101/2024.09.17.613601v1)
3. Chkhaidze A, Reeder RR, Gag C, **Kiyonaga A** & Coulson S. Beyond vividness: Content analysis of induced hallucinations reveals the hidden structure of individual differences in visual imagery. *arXiv*. DOI: [10.48550/arXiv.2507.09011](https://doi.org/10.48550/arXiv.2507.09011)
4. Yang S, Dong Y, & **Kiyonaga A**. Flexible Working Memory in the Peripheral Nervous System. *bioRxiv*. DOI: [10.1101/2025.09.26.678884](https://doi.org/10.1101/2025.09.26.678884)
5. Dong Y, Yang S, Hung Y, & **Kiyonaga A**. Flexible gaze reinstatement during working memory for natural scenes. *bioRxiv*. DOI: [10.1101/2025.09.29.678115v1](https://doi.org/10.1101/2025.09.29.678115v1)
6. **Kiyonaga A**^{*}, Scimeca JM^{*}, & D'Esposito M (accepted in principle). Dissociating the causal roles of frontal and parietal cortex in working memory capacity. *Nature Human Behaviour*.
This is a Registered Report that has been approved after Stage 1 peer-review. DOI: [10.6084/m9.figshare.7145873.v1](https://doi.org/10.6084/m9.figshare.7145873.v1)

Peer-reviewed journal articles

1. **Kiyonaga A** & Serences JT (in press). Sensory reformatting for a working visual memory. *Trends in Cognitive Sciences*. DOI: [10.1016/j.tics.2025.09.006](https://doi.org/10.1016/j.tics.2025.09.006)
2. Adam K, Klatt LI, Miller J, Rösner M, Fukuda K, & **Kiyonaga A** (2025). Beyond routine maintenance: Current trends in working memory research. *Journal of Cognitive Neuroscience*, 37, 1035-1052. DOI: [10.1162/jocn_a_02298](https://doi.org/10.1162/jocn_a_02298)
3. Dong Y & **Kiyonaga A** (2024). Ocular working memory signals are flexible to behavioral priority and subjective imagery strength. *Journal of Neurophysiology*, 132, 162-176. DOI: [10.1152/jn.00446.2023](https://doi.org/10.1152/jn.00446.2023)
4. Miller JA, Tambini A, **Kiyonaga A**, & D'Esposito M (2022). Long-term learning transforms prefrontal cortex selectivity during working memory. *Neuron*, 110(22), 3805-3819. DOI: [10.1016/j.neuron.2022.09.019](https://doi.org/10.1016/j.neuron.2022.09.019)
Commentary: Ren, Konrad, Wagner, & Dresler (2023). Mnemonic training contextualizes working memory with long-term memory representations, *European Journal of Neuroscience*, 57, 1639-1641.
5. **Kiyonaga A**, Powers J, Chiu YC, & Egner T (2021). Hemisphere-specific parietal contributions to the interplay between working memory and attention. *Journal of Cognitive Neuroscience*, 33, 1428-1441. DOI: [10.1162/jocn_a_01740](https://doi.org/10.1162/jocn_a_01740)
6. Miller JA^{*}, **Kiyonaga A**^{*}, Ivry RB, & D'Esposito M (2020). Prioritized verbal working memory content biases ongoing action. *Journal of Experimental Psychology: Human Perception and Performance*, 46, 1443-1457. DOI: [10.1037/xhp0000868](https://doi.org/10.1037/xhp0000868)
7. **Kiyonaga A** & Scimeca JM (2019). Practical considerations for navigating Registered Reports. *Trends in Neurosciences*, 42, 568-572. DOI: [10.1016/j.tins.2019.07.003](https://doi.org/10.1016/j.tins.2019.07.003)
8. **Kiyonaga A**^{*}, Dowd EW^{*}, & Egner T (2017). Neural representation of working memory content is modulated by visual attentional demand. *Journal of Cognitive Neuroscience*, 29, 2011-2024. DOI: [10.1162/jocn_a_01174](https://doi.org/10.1162/jocn_a_01174)

9. **Kiyonaga A**, Scimeca JM, Bliss DP, & Whitney D (2017). Serial dependence across perception, attention, and memory. *Trends in Cognitive Sciences*, 21, 493-497. DOI: [10.1016/j.tics.2017.04.011](https://doi.org/10.1016/j.tics.2017.04.011)
Commentary: Dyson (2017). Serial dependence in audition: Free, fast, and featureless? *Trends in Cognitive Sciences*, 21, 819-820.
10. **Kiyonaga A** & Egner T (2016). Center-surround inhibition in working memory. *Current Biology*, 26, 64-68. DOI: [10.1016/j.cub.2015.11.013](https://doi.org/10.1016/j.cub.2015.11.013)
11. Coutlee, CG, **Kiyonaga A**, Korb FM, Huettel, SA, & Egner T (2016). Reduced risk-taking following disruption of the intraparietal sulcus. *Frontiers in Neuroscience*, 10, 588. DOI: [10.3389/fnins.2016.00588](https://doi.org/10.3389/fnins.2016.00588)
12. Dowd EW, **Kiyonaga A**, Beck J, & Egner T (2015). Quality and accessibility of visual working memory during cognitive control of attentional guidance: A Bayesian model comparison approach. *Visual Cognition*, 23, 337- 356. DOI: [10.1080/13506285.2014.1003631](https://doi.org/10.1080/13506285.2014.1003631)
13. Dowd EW, **Kiyonaga A**, Egner T, & Mitroff S. (2015). Attentional guidance by working memory differs by paradigm: An individual-differences approach. *Attention, Perception, & Psychophysics*, 77, 704-712. DOI: [10.3758/s13414-015-0847-z](https://doi.org/10.3758/s13414-015-0847-z)
14. **Kiyonaga A** & Egner T (2014). The working memory Stroop effect: When internal representations clash with external stimuli. *Psychological Science*, 25, 1619-1629. DOI: [10.1177/0956797614536739](https://doi.org/10.1177/0956797614536739)
15. **Kiyonaga A**, Korb F, Lucas J, Soto D, & Egner T (2014). Dissociable causal roles for left and right parietal cortex in controlling attentional biases from working memory. *NeuroImage*, 100, 200-205. DOI: [10.1016/j.neuroimage.2014.06.019](https://doi.org/10.1016/j.neuroimage.2014.06.019)
16. **Kiyonaga A** & Egner T (2014). Resource-sharing between internal maintenance and external selection modulates attentional capture by working memory content. *Frontiers in Human Neuroscience*, 8, 670. DOI: [10.3389/fnhum.2014.00670](https://doi.org/10.3389/fnhum.2014.00670)
17. **Kiyonaga A**, & Egner T (2013). Working memory as internal attention: Toward an integrative account of internal and external selection processes. *Psychonomic Bulletin & Review*, 20, 228-242. DOI: [10.3758/s13423-012-0359-y](https://doi.org/10.3758/s13423-012-0359-y)
18. Soto D, Greene C, **Kiyonaga A**, Rosenthal C, & Egner T (2012). A parieto-medial temporal pathway for the strategic control over working memory biases in human visual attention. *Journal of Neuroscience*, 32, 17563-17571. DOI: [10.1523/JNEUROSCI.2647-12.2012](https://doi.org/10.1523/JNEUROSCI.2647-12.2012)
19. **Kiyonaga A**, Egner T, & Soto D (2012). Cognitive control over working memory biases of selection. *Psychonomic Bulletin & Review*, 19, 639-646. DOI: [10.3758/s13423-012-0253-7](https://doi.org/10.3758/s13423-012-0253-7)
20. Stanley EA, **Kiyonaga A**, Schaldach JM, & Jha AP (2011) Mindfulness-based mind fitness: A case study of a high stress pre-deployment military cohort. *Cognitive and Behavioral Practice*, 18, 566-576. DOI: [10.1016/j.cbpra.2010.08.002](https://doi.org/10.1016/j.cbpra.2010.08.002)
21. Baijal S, Jha AP, **Kiyonaga A**, Singh R & Srinivasan N (2011). The influence of concentrative meditation training on the development of attention networks during early adolescence. *Frontiers in Psychology*, 2, 153. DOI: [10.3389/fpsyg.2011.00153](https://doi.org/10.3389/fpsyg.2011.00153)
22. Jha AP, Stanley EA, **Kiyonaga A**, Wong LM, & Gelfand L (2010). Examining the protective effects of mindfulness training on working memory capacity and affective experience. *Emotion*, 10, 54-64. DOI: [10.1037/a0018438](https://doi.org/10.1037/a0018438)
23. Jha AP & **Kiyonaga A** (2010). Working memory-triggered dynamic adjustments in cognitive control. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 36, 1036-1042. DOI: [10.1037/a0019337](https://doi.org/10.1037/a0019337)

Refereed conference papers

1. Ying Z, Callaway F, Fox R, **Kiyonaga A** & Mattar MG (2025). A Variational Neural Network Model of Resource-

- Rational Reward Encoding in Human Planning. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 47). link: <https://escholarship.org/uc/item/1jh635fd>
2. Chkhaidze A, **Kiyonaga A**, Coulson S & Reeder RR (2025). Visual Imagery Vividness Predicts the Complexity of Induced Hallucinations. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 47). link: <https://escholarship.org/uc/item/1dx3n6gp>
 3. Ying Z, Callaway F, **Kiyonaga A**, & Mattar MG (2024). Resource-Rational Encoding of Reward Information in Planning. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 46). link: <https://escholarship.org/uc/item/8sb1c95h>
 4. Chkhaidze A, Coulson S, & **Kiyonaga A** (2023). Individual Differences in Preferred Thought Formats Predict Features of Narrative Recall. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 45. link: <https://escholarship.org/uc/item/ojm2d2rm>
 5. Dowd EW, **Kiyonaga A**, Beck JM, & Egner T (2014). Probability of guessing, not precision, changes in mixture models of visual working memory during cognitive control of attentional guidance. Summary published in Object Perception, Attention, and Memory (OPAM) 2014 Conference Report, Visual Cognition, 22(8), 1027-1030. DOI: [10.1080/13506285.2014.960669](https://doi.org/10.1080/13506285.2014.960669)

Invited Chapters & Commentaries

1. Yang S, **Kiyonaga A** (2024). Serial Dependence: Connecting past and present. *eLife* 13:e101212. DOI: [10.7554/eLife.101212](https://doi.org/10.7554/eLife.101212)
2. **Kiyonaga A** & D'Esposito M (2020). Competition and control during working memory. In James T. Enns and M. M. Chun (eds.), *Elements in Perception*. Cambridge: Cambridge University Press. DOI: [10.1017/9781108581073](https://doi.org/10.1017/9781108581073)
3. **Kiyonaga A** (2019). We need a taxonomy of working memory. *Journal of Cognition*. 2(1), 35. DOI: [10.5334/joc.71](https://doi.org/10.5334/joc.71)
Response: Oberauer, K. (2019). Working Memory and Attention – Response to Commentaries. *Journal of Cognition*, 2(1), 30.
4. Scimeca JM, **Kiyonaga A**, & D'Esposito M (2018). Reaffirming the sensory recruitment account of working memory. *Trends in Cognitive Sciences*, 22, 190-192. DOI: [10.1016/j.tics.2017.12.007](https://doi.org/10.1016/j.tics.2017.12.007)
Response: Xu, Y. (2018). Sensory Cortex Is Nonessential in Working Memory Storage. *Trends in Cognitive Sciences*, 22(3), 192-193.

Professional Activities

Society memberships

Cognitive Neuroscience Society • Society for Neuroscience • Vision Sciences Society

Society service

Cognitive Neuroscience Society, *Poster Committee*
 Working Memory Symposium, *Organizing Committee*

Editorial Service

Consulting Editor, *Journal of Cognitive Neuroscience*
 Guest Editor, *Neurobiology of Learning and Memory* — Special Issue on Cognitive Control

Advisory Board Memberships

Journal of Cognitive Neuroscience Discussion Forum (JoCNForum)

Ad-hoc reviewing

Funding Agencies

NIH Human Complex Mental Function study section • NIH Learning, Memory, and Decision Neuroscience study section • National Science Foundation • Wellcome Sir Henry Dale Fellowship

Journals

Annals of the New York Academy of Sciences • Attention, Perception & Psychophysics • BMC Biology • Cerebral Cortex • Child Development • Cognition • Communications Psychology • Cortex • Current Biology • Current Directions in Psychological Science • eLife • eNeuro • European Journal of Neuroscience • Experimental Brain Research • Frontiers in Human Neuroscience • Frontiers in Psychology • Human Brain Mapping • iScience • Journal of Cognition • Journal of Cognitive Neuroscience • Journal of Experimental Psychology: General • Journal of Experimental Psychology: Human Perception and Performance • Journal of Experimental Psychology: Learning, Memory and Cognition • Journal of Neurophysiology • Journal of Neuroscience • Journal of Vision • Memory • Memory & Cognition • Nature Communications • Nature Human Behaviour • Nature Reviews Neuroscience • NeuroImage • Neuropsychologia • PCI Registered Reports • PLoS Biology • Psychological Science • Psychonomic Bulletin & Review • Quarterly Journal of Experimental Psychology • Science Advances • Scientific Reports • Trends in Cognitive Sciences • Visual Cognition • WIREs Cognitive Science

Invited Talks

UC Santa Barbara , Department of Psychological & Brain Sciences, CPCN Seminar	May 2023
University of Texas at Austin , Neuroscience Seminar Series	April 2023
University of Iowa , Psychological & Brain Sciences Brownbag	April 2023
University of Oxford , Department of Experimental Psychology BEACON talk	June 2021
Vrije Universiteit Amsterdam , Cognitive Psychology Department Colloquium	October 2021
University of Chicago , Awh/Vogel lab meeting	February 2021
George Washington University , Cognitive Neuroscience Brownbag	November 2020
UC San Diego , Department of Psychology, Cognitive Brownbag	November 2020
UC Berkeley , Whitney lab meeting	August 2020
UCLA , Department of Psychology, Cognitive Forum	February 2020
Columbia University , Zuckerman Mind Brain Behavior Institute	March 2019
UC San Diego , Department of Cognitive Science	February 2019
Center for Open Science , 'Being a Reviewer or Editor for Registered Reports'	September 2019

Mentorship

Certification completed: Neuroscience Graduate Program Senior Faculty Mentor Training 2022: Optimizing Faculty Mentoring Relationships at University of California, San Diego

Postdocs

Vivien Chopurien	2025-
Janna Wennberg	2025-
Ian Ballard (<i>now Assistant Professor at UC Riverside</i>)	2023

PhD Students

Si Han Yang	2023-
Zhuojun 'Ruby' Ying (co-advised with Marcelo Mattar)	2022-
Pria Daniel (co-advised with Adam Aron; <i>Cota-Robles Fellowship recipient</i>)	2022-
Ana Chkhaidze (co-advised with Lera Boroditsky; <i>KIBM Fellowship recipient</i>)	2022-
Corey Zhou (co-advised with Marcelo Mattar; <i>now Researcher at Amazon</i>)	2022-2024
Yueying 'Holly' Dong	2020-

Graduate Student Committees

Leah Ettensohn (UCSD Psychology)	2025-
Isabella Longoria-Valenzuela (UCSD Psychology)	2025-
Holly Kular (UCSD Psychology)	2024-
Sana Ali (UCSD Cognitive Science)	2022-
Yang Wang (UCSD Psychology)	2022-
Amit Rawal (Max Planck at the Ernst Strüngmann Institute)	2022-
Eena Kosik (UCSD Cognitive Science)	2021-
Quirine Van-engen (UCSD Cognitive Science)	2021-
Isabella Destefano (UCSD Psychology)	2021-
Janet Tung (UCSD Cognitive Science)	2021-
Louise Stolz (UCSD Neuroscience)	2023-2025
Andrew Bender (UCSD Neuroscience)	2023-2025
Felix Binder (UCSD Cognitive Science)	2023-2025
Janna Wennberg (UCSD Psychology)	2022-2025
Matthew Feigelis (UCSD Cognitive Science)	2021-2024
Sunyoung Park (UCSD Psychology)	2022-2024
Will McCarthy (UCSD Cognitive Science)	2021-2024
Hayden Schill (UCSD Psychology)	2021-2023
Timothy Sheehan (UCSD Neuroscience)	2020-2023
Angus Chapman (UCSD Psychology)	2020-2022
Jonathan Keefe (UCSD Psychology)	2020-2022
Kelsey Sundby (UCSD Psychology)	2020-2021
Frida Printzlau (University of Oxford)	2021

Undergraduate Honor's Thesis Mentorship

Emma Kandel (UC San Diego; <i>now PhD student at UCLA</i>)	2023-2025
Project Title: The effects of agency and goal-cohesion on working memory for naturalistic stimuli	
Jennifer Hung (UC San Diego; <i>now PhD student at Rutgers</i>)	2023-2025
Project Title: Testing the flexibility of pupillary working memory signals to visual and semantic task demands <i>*Glushko thesis award winner</i>	
Jaden Huynh (UC San Diego)	2022-2023
Project Title: Potential electroencephalogram treatment responsive biomarkers in Obsessive Compulsive Disorder	
Sagarika Allavilli (UC San Diego; <i>now PhD student at Harvard</i>)	2020-2021
Project Title: The biasing of auditory working memory by a set of similar distractors	
Kaiqi Zhang (UC San Diego; <i>now PhD student at Washington University</i>)	2020-2021
Project Title: The effect of priority state of working memory content on its vulnerability to interference	
Stuti Bansal (UC Berkeley; <i>now medical student at Mt. Sinai</i>)	2018-2020
Project Title: Structural-functional relationships in human parietal cortex for working memory capacity	
John Lucas (Duke University)	2011-2014
Project Title: Neural mechanisms of reciprocity between working memory and attention	

Undergraduate Research Apprenticeships

UC San Diego: Keionni Thompson, Emily Madera, Zoe Tait, Weiwei Liang Brian Fang, Nupoor Patil, Kaushika Uppu, Tiffany Widjaja, Sharai Barrera, Christian Dier-Martinis, Yvonne Luo, Darwin Cervantes, Emma Kandel, Connie Xie, Jennifer Hung, Mycah Gutierrez	2020-
UC Berkeley: Sijing (Jean) Ye, Stuti Bansal, Joseph Schenker, Lauren Schuck, Jessica Houghton, Murray Andrews, Xinyu Li, Eugene Gil	2015-2020
Duke University: John Lucas, Ada Aka, Hannah Gold	2010-2015

Teaching**Courses Taught (UC San Diego)**

COGS 1: <i>Introduction to Cognitive Science</i> (3x)	Fall 2021 – Winter 2025
COGS 17: <i>Neurobiology of Cognition</i> (3x)	Spring 2020-Winter 2021
COGS 165: <i>Neuroimaging of Cognition</i> (6x)	Spring 2020-Fall 2025
COGS 260: <i>Scientific Writing</i> (4x)	Winter 2021-Winter 2025
COGS 200: <i>Cognitive Science Seminar</i>	Spring 2021

Guest Lectures (UC San Diego)

COGS 1: <i>Introduction to Cognitive Science</i>	Spring 2020 – Fall 2025
COGS 200: <i>Cognitive Science Seminar</i>	Fall 2019, Winter 2020

Pedagogical Training

UC San Diego “Course Design Series” Engaged Teaching workshop	Winter 2020
UC Berkeley, MCB 290 “Designing a course for undergraduate neuroscience majors”	Fall 2019

Outreach

Colors of the Brain Faculty Mentor	2022-
UCSD program providing paid research experience to students from underrepresented groups	
STARS Faculty Mentor	2022-
UCSD Summer Training Academy for Research Success	
Marshall Mentor Program Faculty Mentor	2022-
UCSD program pairing transfer students with faculty mentors for career guidance	
Cognitive Science Summer Scholars Research Advisor	2021-
UCSD post-baccalaureate program to support career development for students who have faced adversity	
Stemanities Judge & Panelist	2020
National High School Research Competition Integrating STEM and the Humanities	
NIH Bridges to the Baccalaureate (B2B) Mentor	2016

Fellowships and Honors

Individual Ruth L. Kirchstein Postdoctoral National Research Service Award (NRSA), NIMH F32MH111204 : Network properties and causal mechanisms of distractor-resistant working memory	2016-2019
NIMH Summer Institute in Cognitive Neuroscience Fellowship	2014
Duke Graduate School Summer Research Fellowship	2014

Conference Abstracts

Talks

- Dong Y, Yang S, Hung Y, & **Kiyonaga A** (March 2025). Flexible gaze reinstatement during working memory for natural scenes. *Data Blitz at the Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.*
- Dong Y & **Kiyonaga A** (June 2023) Pupil size tracks graded functional states of working memory maintenance. *Working Memory Symposium.*
- Kiyonaga A**, Miller JA, Tambini A & D'Esposito M (November 2022). Long-term experience shapes short-term memory codes. *Annual Meeting of the Society for Neuroscience, San Diego, CA.*
- Miller JA, Tambini A, **Kiyonaga A**, & D'Esposito M (June 2021). Long-term learning transforms prefrontal cortex selectivity during working memory. *Virtual Working Memory Symposium.*
- Miller JA, **Kiyonaga A**, Tambini A, & D'Esposito M (June 2020). Learning-related changes in working memory with frequent, longitudinal sampling. *Virtual Working Memory Symposium.*
- Scimeca JM, **Kiyonaga A**, & D'Esposito M (June 2020). The capacity and control of working memory: Causal roles of frontal and parietal cortex. *Virtual Working Memory Symposium.*
- Kiyonaga A**, Miller, JA, Ivry, RB, & D'Esposito, M (November 2018). Cortico-striatal control over working memory output gating. *Annual Meeting of the Society for Neuroscience, San Diego, CA.*
- Dowd EW, **Kiyonaga A**, Egner T (May 2015). Competitive tradeoffs between working memory and attention: an fMRI approach. *Annual Meeting of the Vision Sciences Society, St., Pete Beach, FL.*
- Dowd EW, **Kiyonaga A**, Beck J, & Egner T (November 2014). Probability of guessing, not precision, changes in mixture models of visual working memory during cognitive control of attentional guidance. *Annual Workshop on Object Perception, Attention, and Memory, Long Beach, CA.*
- Kiyonaga A** & Egner T (March 2014). The working memory Stroop effect: When internal representations clash with external stimuli. *North Carolina Conference on Cognition, Raleigh, NC.*
- Kiyonaga A** & Egner T (February 2013). It's about time: A mechanistic account of working memory attention interactions. *North Carolina Conference on Cognition, Raleigh, NC.*
- Trubutschek D, **Kiyonaga A**, & Egner T (October 2012). The 'what' and 'how' of working memory: Dissociating neural mechanisms of declarative and procedural components. *Annual Meeting of the Society for Neuroscience, New Orleans, LA.*
- Jha AP, & **Kiyonaga A** (April 2010). Working Memory Demands Trigger Dynamic Adjustments in Executive Control. *Annual Meeting of the Cognitive Neuroscience Society, Montreal, Canada.*
- Van Vugt M, **Kiyonaga A**, Wong LM, & Jha AP (March 2009). The Influence of Mindfulness Meditation Training on Visual Working Memory. *Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

Posters

- Dong Y, Hung Y, Xie C, & **Kiyonaga A** (May 2025) Pupillary signatures of working memory content are flexible to visual vs. semantic task demands. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- Yang S, Dong Y, & **Kiyonaga A** (May 2025). Response modality modulates spatial and temporal biases in visual working memory. *Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.*
- Ying Z & **Kiyonaga A** (March 2025). Working Memory Demands Influence the Balance between Detailed and Gist-

- Level Representations during Planning. *Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.*
- Dong Y, Yang S, Hung Y, & **Kiyonaga A** (March 2025). Flexible gaze reinstatement during working memory for natural scenes. *Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.*
- Yang S, Scimeca JM, & **Kiyonaga A** (March 2025). Fronto-parietal contributions to temporal, spatial, and category biases in visual working memory. *Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.*
- Daniel PL & **Kiyonaga A** (March 2023). Beta oscillations in task switching (BOTS): Evidence for a clear-out role of sensorimotor beta. *Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*
- Dong Y & **Kiyonaga A** (March 2023). Pupil Size Tracks Graded Functional States of Working Memory Maintenance. *Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*
- Daniel PL & **Kiyonaga A** (November 2022). Do sensorimotor beta oscillations help or hinder task switching? *Annual Meeting of the Society for Neuroscience, San Diego, CA.*
- Cellier D, Scimeca J, & **Kiyonaga A** (November 2022). Frontal and Parietal TMS perturbs serial biases in color working memory. *Society for Neuroscience Annual Meeting, San Diego, CA.*
- Dong Y & **Kiyonaga A** (November 2022). Pupil Size Tracks Graded Functional States of Working Memory Maintenance. *Annual Meeting of the Society for Neuroscience, San Diego, CA.*
- Cellier D, **Kiyonaga A** (April 2022). Distractor effects on working memory are graded by feature similarity and attentional priority state. *Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*
- Scimeca JM, **Kiyonaga A**, & D'Esposito M (April 2022). Dissociating the causal contributions of frontal and parietal cortex in working memory capacity. *Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*
- Pappas I, Tambini A, Miller JA, **Kiyonaga A** & D'Esposito M (November 2021). Changes in large scale brain organization during long term sequence learning. *Annual Meeting of the Society for Neuroscience, Virtual.*
- Miller JA, Tambini A, **Kiyonaga A** & D'Esposito M (November 2021). Long-term learning transforms prefrontal cortex and medial temporal lobe activity patterns during working memory. *Annual Meeting of the Society for Neuroscience, Virtual.*
- Miller JA, Tambini A, **Kiyonaga A** & D'Esposito M (March 2021). Long-term learning transforms prefrontal cortex selectivity during working memory. *Annual Meeting of the Cognitive Neuroscience Society, Virtual.*
- Miller JA, Tambini A, **Kiyonaga A** & D'Esposito M (January 2021). Long-term learning transforms prefrontal cortex selectivity during working memory. *Society for Neuroscience Global Connectome: A Virtual Event.*
- Miller JA, **Kiyonaga A**, Tambini A, & D'Esposito M (May 2020). Frequent longitudinal sampling reveals learning-related changes in working memory substrates and processes. *Annual Meeting of the Cognitive Neuroscience Society, Virtual.*
- Kiyonaga A**, Scimeca JM, & D'Esposito M (June 2019). Dissociating the causal roles of frontal and parietal cortex in working memory capacity. *Annual Meeting of the Organization for Human Brain Mapping, Rome, Italy.*
- Kiyonaga A**, Lurie DJ, & D'Esposito M (November 2017). Network competition and reconfiguration during working memory processing. *Dynamic poster at the Annual Meeting of the Society for Neuroscience, Washington, DC.*
- Miller JA, **Kiyonaga A**, Ivry RB, & D'Esposito M (November 2017). Modulating the cortico-striatal output gate of

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