

# JASON M. SAMAHA

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## Education

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- 2013 – 2018 University of Wisconsin-Madison, PhD. Psychology  
Advisor: *Bradley R. Postle*
- 2010 – 2013 San Francisco State University, BA. Psychology  
Honors Thesis Mentors: *Ezequiel Morsella & Mark W. Geisler*

## Grants, Awards, and Fellowships

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- 2017 Samaha, J. (PI), Denison, R. (PI). *The Perceptual Basis of Confidence*. Summer Seminars in Neuroscience and Philosophy sub-grant (\$19,700)
- 2017 Summer Seminar in Neuroscience and Philosophy Fellow, Duke University
- 2017 Winter School in the Neuroscience of Consciousness, Canadian Institute for Advanced Research
- 2017 The Ann E. Kelly Fellowship in Behavioral Neuroscience, UW-Madison
- 2017 Graduate Student Poster Award, Cognitive Neuroscience Society
- 2016 Computational and Cognitive Neuroscience Summer School Fellowship, NYU-Shanghai
- 2015 Summer Institute in Cognitive Neuroscience Fellowship, NIMH-funded
- 2014 Hertz Foundation Travel Award, University of Wisconsin-Madison
- 2011 – 2013 Career Opportunities in Research Education and Training Fellowship, NIMH (\$40,000)
- 2013 First place recipient, 15<sup>th</sup> annual San Francisco State University project showcase
- 2013 First place recipient, San Francisco State University Psi Chi poster competition
- 2012 Second place recipient, 14<sup>th</sup> annual San Francisco State University project showcase

## Research Assistantships

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- 2011 – 2013 Gazzaley Laboratory, University of California, San Francisco.  
Principal Investigators: *Adam Gazzaley, Joaquin A. Anguera, & Bradley Voytek*
- Summer 2012 Sackler Center for Consciousness Science, University of Sussex, UK.  
Principal investigators: *Anil Seth & Ryan B. Scott*

## Professional and Teaching Experience

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- 2015 - present Reviewer – The Journal of Neuroscience; The Journal of Neurophysiology; Neuropsychologia; The Journal of Cognitive Neuroscience; The Journal of Experimental Psychology: General; eNeuro; Consciousness and Cognition; NeuroImage; The European Journal of Neuroscience; Scientific Reports; Behavioral Neuroscience; Journal of Neuroscience Methods; Cerebral Cortex.
- 2012 – 2013 Lab Manager – Cognitive Psychophysiology Lab. PI: *Mark W. Geisler*, SFSU

2014	Graduate Research Mentor – Research Experiences for Undergraduates, NSF. Formal Mentorship Training Summer Program, UW-Madison. Mentee: <i>Phoebe Bauer</i> , Reed College.
2013 – present	Students mentored: Sawyer Cimaroli, Missy Switzky, John Barrett, Kaitlyn Mariska, Phoebe Bauer
2015	Teaching Assistant – Psychology 414: Cognitive Psychology, UW-Madison
2013	Teaching Assistant – Psychology 571: Intermediate Psychological Statistics, SFSU
2012	Teaching Assistant – Psychology 400: Research Methods, SFSU
2011	Teaching Assistant – Psychology 200: Introduction to Psychology, SFSU

## Publications

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2018	Wutz, A*, Melcher, D., <b>Samaha, J*</b> . Frequency modulation of neural oscillations according to visual task demands. <i>Proceedings of the National Academy of Sciences</i> *Denotes equal contribution.
2018	Scott, R.B., <b>Samaha, J.</b> , Chrisley, R., Dienes, Z. Prevailing theories of consciousness are challenged by novel cross-modal associations acquired between subliminal stimuli. <i>Cognition</i>
2018	<b>Samaha, J.</b> , Boutonnet, B., Postle, B.R., Lupyan, G. Effects of meaningfulness on perception: Alpha-band oscillations carry perceptual expectations and influence early visual responses. <i>Scientific Reports</i> .
2017	<b>Samaha, J.</b> , Postle, B.R. Correlated individual differences suggest a common mechanism underlying metacognition in visual perception and visual short-term memory. <i>Proceedings of the Royal Society of London: Biological Science</i>
2017	<b>Samaha, J.</b> , Iemi, L., Postle, B.R. Prestimulus alpha-band power biases visual discrimination confidence, but not accuracy. <i>Consciousness and Cognition</i>
2017	Votyek, B., <b>Samaha, J.</b> , Rolle., C.E., Greenberg, Z., Gill, N., Porat, S., Kader, R., Rahman, S., Malzyner, R., Gazzaley, A. Preparatory encoding of the fine scale of human spatial attention. <i>Journal of Cognitive Neuroscience</i> .
2017	<b>Samaha, J.</b> , Gosseries, O., Postle, B.R. Distinct oscillatory frequencies underlie excitability of human occipital and parietal cortex. <i>Journal of Neuroscience</i>
2017	Lapate, R.C., <b>Samaha, J.</b> , Rokers, B., Hamzah, H., Postle, B.R., Davidson, R.J. Inhibition of lateral prefrontal cortex produces emotionally biased first impressions: A TMS/EEG study. <i>Psychological Science</i>
2016	Reveley, C., Gruslys, A., Ye, F.Q., Glen, D., <b>Samaha, J.</b> , Russ, B.E., Saad, Z., Seth, A.K., Leopold, D.A., & Saleem K.S. Three-dimensional digital template atlas of the macaque brain. <i>Cerebral Cortex</i> .
2016	<b>Samaha, J.</b> , Barrett, J.J., Sheldon, A.S., LaRocque, J.J., Postle B.R. Dissociating perceptual confidence from discrimination accuracy reveals no influence of metacognitive awareness on working memory. <i>Frontiers in Psychology</i>
2016	<b>Samaha, J.</b> , Sprague, T.C., Postle, B.R. Decoding and reconstructing the focus of spatial attention from the topography of alpha-band oscillations. <i>The Journal of Cognitive Neuroscience</i>
2015	<b>Samaha, J.</b> , Postle, B.R. The speed of alpha-band oscillations predicts the temporal resolution of visual perception. <i>Current Biology</i>
2015	<b>Samaha, J.</b> , Bauer, P., Cimaroli, S., Postle, B.R. Top-down control of the phase of alpha-band oscillations as a mechanism for temporal prediction. <i>Proceedings of the National Academy of Sciences</i> .
2015	<b>Samaha, J.</b> How best to study the function of consciousness? <i>Frontiers in Psychology</i>

## Invited Talks

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- 2017 **Samaha, J.**, Postle, B.R. Oscillatory dynamics supporting visual attention and awareness. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- 2017 **Samaha, J.**, Postle, B.R. Oscillatory contributions to perception and attention. CogForum lecture series, UCLA.
- 2016 **Samaha, J.**, & Postle, B.R. Properties of intrinsic visuo-cortical oscillations constrain perception and support perceptual predictions, Carrasco, Winawer, and Halassa Labs, NYU.
- 2015 **Samaha, J.**, & Postle, B.R. Probing oscillatory networks for perception and attention with TMS-EEG. Neuronal Control & Interference Seminar, University of Wisconsin- Milwaukee.
- 2014 **Samaha, J.**, & Postle, B.R. The role of alpha oscillations in gating visual awareness and in the top-down control of temporal attention. Gazzaley Laboratory, UCSF.

## Symposium Talks

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- 2018 **Samaha, J.**, Wutz, A., Postle, B.R. The importance of oscillatory frequency for perception and top-down processing. European Conference for Visual Perception, Trieste, Italy.
- 2017 **Samaha, J.**, Postle, B.R. Interrelating cortical excitability and sensory evidence to understand subjective and objective measures of awareness. Association for the Scientific Study of Consciousness. Beijing, China.
- 2016 **Samaha, J.**, Sprague, T.C., Voytek, B., Gazzaley, A., & Postle, B.R. Preparatory encoding of the location and scope of human spatial attention. Society for Neuroscience nano. San Diego, CA
- 2016 **Samaha, J.**, Postle, B.R. Dissociating perceptual confidence from discrimination accuracy reveals no influence of metacognitive awareness on working memory. Association for the Scientific Study of Consciousness. Buenos Aires, Argentina.
- 2016 **Samaha, J.**, Postle, B.R. The role of alpha-band oscillations in temporal prediction and perception. Cognitive Neuroscience Society. Chair: **Samaha, J.** Co-Chair: Ali Mazaheri
- 2015 Bauer, P., **Samaha, J.**, Cimaroli, S., & Postle, B.R. Top-down control of the phase of alpha-band oscillations as a mechanism for temporal predictions. Cognitive Science Association for Interdisciplinary Learning. Hood River, Oregon.
- 2013 Scott, R. B., **Samaha, J.**, Chrisley, R., & Dienes, Z. Unconscious cross-modal binding: A challenge for Global Workspace Theory? European Society for Cognitive Psychology, Budapest
- 2012 Scott, R. B., **Samaha, J.**, & Dienes, Z. Associative learning achieved without conscious perception. Symposium at the 1<sup>st</sup> seminar on implicit learning, Sopot, Poland

## Select Conference Proceedings

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1. **Samaha, J.**, LaRocque, J.J., Gosseries, O., Tononi, G., Postle, B.R. (2017) Dissociating neural activity related to subjective visibility and objective performance with simultaneous EEG/fMRI. Cognitive Neuroscience Society, San Francisco. Graduate Student Poster Award.
2. **Samaha, J.**, Switzky, M., Postle, B.R. (2017) Confidence amplifies serial dependence in perceptual decisions. Society for Neuroscience, Washington, D.C.
3. Gosseries, O., Nieminen, J, **Samaha, J.**, Boly, M., Massimini, M., Postle, B.R., Tononi, G. (2016) Transcranial magnetic stimulation in sleep consciousness Association for the Scientific Study of Consciousness Conference, Buenos Aires, Argentina
4. Lapate, R.C., **Samaha, J.**, Rokers, B., Austermuehle, A., Hamzah, H., Postle, B.R., Davidson, R.J. (2015). Dorsolateral prefrontal cortex, metacognitive awareness of emotional visual stimuli, and emotion regulation. Society for Neuroscience, Chicago.

5. **Samaha, J.**, Mariska, K., Cimaroli, S., Postle, B.R. (2015). The speed of posterior alpha-band oscillations predicts the speed of visual perception. Society for Neuroscience, Chicago.
6. **Samaha, J.**, LaRocque, J.J., Gosseries, O., Tononi, G., Postle, B.R. (2015). Pre- and Post-stimulus neural activity reflecting subjective visibility and objective performance measured with simultaneous EEG/fMRI. Association for the Scientific of Consciousness, Paris, France.
7. **Samaha, J.**, Bauer, P., Cimaroli, S., Postle, B.R. (2015). Top-down control of alpha phase as a mechanism of temporal prediction. Cognitive Neuroscience Society, San Francisco, CA.
8. **Samaha, J.**, Gosseries, O., Postle, B.R., (2014). Prestimulus phase, power, and connectivity patterns predict phosphene perception and cortical information flow. Society for Neuroscience, Washington, D.C.
9. Sheldon, A.D., **Samaha, J.**, Rose, N.S., Riggall, A.C., Huang, X., Postle, B.R. (2014). rTMS/EEG of MT+ during STM for transparent motion. Society for Neuroscience, Washington, D.C.
10. LaRocque, J.J., **Samaha, J.**, Gosseries, O., Tononi, G., Postle, B.R. (2014). Stimulus-evoked neural activity and intrinsic variations in visual awareness: An EEG/fMRI study. Association for the Scientific Study of Consciousness, Brisbane, Queensland, Australia.
11. **Samaha, J.**, Cimaroli, S., Bauer, P., Postle B.R. (2014). The effect of temporal attention on neural oscillations, discrimination accuracy, and subjective visibility. Association for the Scientific Study of Consciousness, Brisbane, Queensland, Australia.
12. LaRocque, J.J., Riggall, A.C., Turner, R., Gosseries, O., **Samaha, J.**, Tononi, G., Postle, B.R. (2014). Neural correlates of spontaneous fluctuations of visual awareness: A simultaneous EEG/fMRI study. Human Brain Mapping, Hamburg, Germany.
13. **Samaha, J.**, Gosseries, O., Postle., B.R. (2014). Exploring the neural dynamics of occipital and parietal phosphenes with combined TMS-EEG. Cognitive Neuroscience Society annual conference, Boston, Massachusetts
14. **Samaha, J.**, Scott, R., Dienes, Z. (2013). Associative learning does not depend on conscious perception. Northern California Consciousness Meeting, UC Davis, California
15. **Samaha, J.**, Lynn, M.T., Jantz, T.K., Morsella, E., Geisler, M.W. (2013). Still searching for the phonological store: EEG correlates implicating motor and perceptual regions. Cognitive Neuroscience Society annual conference, San Francisco, California
16. Essoe, J.K., Rolle, C., **Samaha J.**, Bowen K., Anguera, J.A., Gazzaley, A. (2013). Age-related differences in perceptual discrimination while multitasking under differing working memory loads. Cognitive Neuroscience Society annual conference, San Francisco, California
17. Gazzaley, A., Greenberg, Z.I., Gill, N., Porat, S., **Samaha, J.**, Kader, T., Voytek B. (2013). Increased visual cortical noise decreases cued visual attention distribution. Cognitive Neuroscience Society annual conference, San Francisco, California
18. **Samaha, J.**, Morsella, E., & Geisler, M.W. (2012). Motor aspects of auditory imagery: Evidence for a Broca's area network. Annual convention of the Association for the Scientific Study of Consciousness, Brighton, United Kingdom
19. **Samaha, J.**, Morsella, E., & Geisler, M.W. (2012). The role of Brocas area and supramarginal gyrus in auditory imagery. Western Psychological Association conference, Burlingame, California
20. Kolarik, B., Dennehy, T., **Samaha, J.**, Goodrich, R., Ben-Zeev, A., Geisler, M.W. (2012). P300 amplitude as an index of memory distortions for skin tone. Cognitive Neuroscience Society annual conference, Chicago, Illinois.

## Professional Memberships

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2011 – <i>present</i>	Association for the Scientific Study of Consciousness
2011 – <i>present</i>	Cognitive Neuroscience Society
2013 – <i>present</i>	Society for Neuroscience