

EDUCATION

Postdoctoral Researcher Department of Psychology University of California, Berkeley Advisor: Anne Collins	2020 - current
Postdoctoral Researcher Department of Psychology and Center for Neural Science New York University (NYU) Advisor: Wei Ji Ma & Clayton Curtis	2019 - 2020
Ph.D, Cognition & Perception Program Department of Psychology New York University (NYU) Advisor: Wei Ji Ma	2014 - 2019
B.A. Psychology (Magna Cum Laude) Minor in Mathematics California State University, Fullerton (CSUF)	2009 - 2014

FELLOWSHIPS/AWARDS

Visual Neuroscience Training Program (T32 EY007136)	2016 - 2017
Vision Science Society Student Travel Award	2016
Henry M. MacCracken Fellowship	2014 - 2019
NIH-funded MARC Program Scholarship	2012 - 2014
CSUF Department of Psychology Travel Funding Award	2014
SACNAS National Conference Undergraduate Poster Presentation Award	2013
SROH Program Stipend	2013
CSUF Don A. Schweitzer Memorial Scholarship in Humanities and Social Sciences	2013
CSUF Emeriti Memorial Undergraduate Scholarship	2013
24th Annual Orange County Sigma Chapter of Graduate Women in Science Student Research Conference Oral Presentation Award	2013

INVITED TALKS

The Effect of Behavioral Relevance on Working Memory Representations (2019). in the *Limits and Dynamics of Working Memory* workshop at the *Computational Neuroscience* Conference, Barcelona, Spain.

PUBLICATIONS

- Yoo, A.H.** & Collins A.G.E. (2021). How working memory and reinforcement learning are intertwined: a cognitive, neural, and computational perspective. *PsyArXiv*.
- Yoo, A.H.**, Bolaños, A., Hallenbeck, G.E., Rahmati, M., Sprague, T.C., Curtis, C.E. (2021). Behavioral prioritization enhances working memory precision and neural population gain. *bioRxiv*.
- Schütt, H., **Yoo, A.H.**, Calder-Travis, J., & Ma, W.J. (2021). Point estimate observers: a new class of models for perceptual decision making. *PsyArXiv*.
- Li, H.H. Sprague, T.C., **Yoo, A.H.**, Ma, W.J., & Curtis, C.E. (2021). Joint representation of working memory and uncertainty in human cortex. *Neuron*.
- Yoo, A.H.**, Acerbi, L., & Ma, W.J. (2021). Uncertainty is maintained and used in working memory. *Journal of Vision*.
- Yoo, A.H.**, Klyszejko, Z., Curtis, C.E., & Ma, W.J. (2018). Strategic allocation of working memory resource, *Scientific Reports*.
- Van den Berg, R., **Yoo, A. H.**, & Ma, W.J. (2017). Fechner law in metacognition: a quantitative model of visual working memory confidence, *Psychological Review*.
- Blandón-Gitlin, I., Fenn, E., Masip, J., & **Yoo, A.** (2014). Cognitive load approaches to detect deception: Searching for cognitive mechanisms. *Trends in Cognitive Sciences*.

PRESENTATIONS

- Yoo., A.H.**, Ma, W.J. (2019). Near-optimal maintenance and use of uncertainty in visual working memory (2019). Poster at the *Computational Cognitive Neuroscience Annual Conference*, Berlin, Germany.
- Yoo, A.H.**, Bolanos, A., Hallenbeck, G., Rahmati, M., Sprague, T.C., Curtis, C.E. (2019). Prioritization affects working memory precision and neural population gain. Poster at the *Vision Sciences Society Annual Conference*, St. Pete Beach, FL.
- Sprague, T.C., **Yoo, A.H.**, Rahmati, M., Hallenbeck, G., Ma, W.J., Curtis, C.E. (2019). Prioritizing relevant information in visual working memory sculpts neural representations in retinotopic cortex to reduce their uncertainty. Poster at the *Vision Sciences Society Annual Conference*, St. Pete Beach, FL.
- Sprague, T.C., **Yoo, A.H.**, Rahmati, M., Ma, W.J., & Curtis, C.E. (2018). Tracking the dynamics and uncertainty of visual spatial working memory representations across human cortex. Poster at the *Society for Neuroscience Conference*, San Diego, CA.
- Sprague, T. Rahmati, M., **Yoo, A.H.**, Ma, W.J., & Curtis, C. (2017) Decoding visual spatial working memory uncertainty from human cortex. Poster at the *Vision Sciences Society Annual Conference*, St. Pete Beach, FL.

- Yoo, A.H.**, Klyszejko, Z., Ma, W.J., & Curtis, C.E. (2017). Resource allocation and confidence in visual working memory. Poster presented at the *Society for Neuroscience Conference*, Washington, D.C.
- Yoo, A.H.**, Klyszejko, Z., Ma, W.J., & Curtis, C.E. (2017). Resource allocation and confidence in visual working memory. Poster presented at the *Cognitive Computational Neuroscience Conference*, New York, NY.
- Yoo, A.H.**, Acerbi, L., & Ma, W.J. (2017). The role of memory uncertainty in change localization. Poster presented at the *Vision Sciences Society Annual Conference*, St. Pete Beach, FL.
- Yoo, A.H.**, Acerbi, L., Orhan, E. & Ma W.J. (2016). The Role of Memory Uncertainty in Change Detection. Poster presented at the *Vision Sciences Society Annual Conference*, St. Pete Beach, FL.
- Fenn, E., Blandón-Gitlin, I., Pezdek, K., & **Yoo, A.H.** (2015). "I'm innocent, but look guilty?" Ethnicity matters during an imposed cognitive load interview. Paper at *American Psychology-Law Society Annual Conference*, San Diego, CA.
- Yoo, A.H.**, Fenn, E., & Blandon-Gitlin I. (2014). Stereotype Threat and Deception: Testing Contexts that May Reduce the Effectiveness of an Imposed-Cognitive-Load Approach. Poster presented at the *Association for Psychological Science Annual Conference*, San Francisco, CA.
- Yoo, A.H.**, Fenn, E., & Blandon-Gitlin I. (2014). Stereotype Threat and Deception: Testing Contexts that May Reduce the Effectiveness of an Imposed-Cognitive-Load Approach. *Undergraduate Thesis Defense*, CSUF, Fullerton, CA.
- Yoo, A.H.**, Fenn, E., & Blandon-Gitlin I. (2014). Stereotype Threat and Deception: Testing Contexts that May Reduce the Effectiveness of an Imposed-Cognitive-Load Approach. Talk presented at the *Natural Sciences and Mathematics Interclub Council Annual Conference*, CSUF, Fullerton, CA.
- Yoo, A.H.**, Fenn, E., & Blandon-Gitlin I. (2013). Stereotype Threat and Deception: Testing Contexts that May Reduce the Effectiveness of an Imposed-Cognitive-Load Approach. Poster presented at the *Southern California Conferences for Undergraduate Research*, Whittier College Shannon Center, Whittier, CA.
- Yoo, A. H.** & Alvarez, G.A. (2013). Investigating Orientation in Visual Long Term Memory. Poster presented at the National *Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS)* Annual Conference, Henry B. Gonzalez Convention Center, San Antonio, TX.
- Yoo, A. H.** & Alvarez, G.A. (2013). Orientation Invariance in Visual Object Recognition and Long Term Memory. Poster presented at the *Leadership Alliance National Symposium 2013*, Hilton Stamford Hotel and Executive Meeting Center, Stamford, CT.
- Yoo, A. H.** & Blandon-Gitlin, I. (2013). Testing Whether an Imposed-Cognitive-Load Approach Induces Mental Load in Liars. Talk presented at the 24th Annual Orange County Sigma Chapter of *Graduate Women in Science* Student Research Conference, Chapman University, Orange, CA.

Yoo, A. H. & Blandon-Gitlin, I. (2013). Testing Whether an Imposed-Cognitive-Load Approach Induces Mental Load in Liars. Poster Presented at the *Natural Science and Mathematics Interclub Council* Annual Conference, CSUF, Fullerton, CA.

Rodolf, A., **Yoo, A. H.** & Gerken, D. (2012). Implicit Memory for Memories Blocked from Explicit Recall. Poster at the *Western Psychological Association* Annual Conference, Hyatt Regency SFO, Burlingame, CA.

TEACHING & MENTORING EXPERIENCE

Teaching Assistant, Illusions to Inference

Spring 2015

Led recitation sessions in course designed to teach Bayesian inference models through fun sensory illusions
Faculty: Wei Ji Ma

Teaching Assistant, Cognition

Fall 2016

Led recitation sessions in an undergraduate course that covers a broad range of topics in the field of Cognitive Psychology
Faculty: Gregory Murphy

Research Mentor

2016 - current

Helped students design an experiment to test a specific hypothesis, code the experiment, analyze the data, and make conclusions based on the results
Mentee: Tashi Lama (high school, 2016-2018), Marissa Evans (Master's, 2018-2020), Soobin Hong (undergraduate, 2021 – current)

Last updated Sept 2021.