

Yu-Chin Chiu, Ph.D.

yuchinchiu@purdue.edu | 703 3rd Street, West Lafayette, IN 47907 | 765-494-8036

PROFESSIONAL POSITIONS

- 2018-** **Assistant Professor**, Department of Psychological Sciences
Purdue University, West Lafayette, IN
- 2013-18** **Post-Doctoral Associate**, Center for Cognitive Neuroscience
Duke University, Durham, NC
- 2011-13** **Post-Doctoral Fellow**, Department of Psychology
University of California San Diego, La Jolla, CA
- 2004-05** **Research Assistant**, Institute of Linguistics
Academia Sinica, Taipei, Taiwan

EDUCATION

- 2010** **Ph.D. Psychological and Brain Sciences**
Johns Hopkins University, Baltimore, MD
Dissertation Title: Moment-by-moment tracking of attentional fluctuation in the human brain
- 2004** **B.S. Psychology (Honors)**
National Taiwan University, Taipei, Taiwan

HONORS & AWARDS

- 2020 Elected Fellow, Psychonomic Society
- 2012 Travel award to Determinants of Executive Function & Dysfunction Annual Conference,
University of Colorado at Boulder, CO
- 2009 Fellowship to the Summer Institute in Cognitive Neuroscience, UC Santa Barbara, CA
- 2008 Fellowship to the Summer School of Mathematics in Brain Imaging, Institute for Pure and
Applied Mathematics (IPAM), UC Los Angeles, CA
- 2005-08 Graduate Fellowships in Cognitive Neuroscience, Ministry of Education, Taiwan

RESEARCH SUPPORT

- Agency:** Indiana Clinical and Translational Science Institute (CTSI)
- Title of Grant:** Neural Mechanisms of Cognitive Flexibility in Humans
- Duration of Funding:** 1 year (8/1/2020 – 7/31/2021)
- Total Amount of Award:** \$10,000
- Role:** Principle Investigator

Agency: Purdue University, PIIN Grand Challenges In Neuroscience
Title of Grant: Pathways to Substance Use Disorder: A Unified Model of Animal and Human Neuroscience to Predict Illness Development
Duration of Funding: 1 year (7/1/2020 – 6/30/2021)
Total Amount of Award: \$ 156,200
Role: Co-I (Investigators: Sébastien Hélie, Julia Chester, Dan Foti, Jacqueline Linnes, Donald Lynam)

Agency: Purdue University, HHS COVID Rapid Response Grant
Title of Grant: Nurses' Psychological Trauma and Cognitive Control in the COVID-19 Pandemic
Duration of Funding: 1 year (5/1/2020 – 4/30/2021)
Total Amount of Award: \$10,000
Role: Co-PI (PI: Karen J. Foli; Co-PI: Lingsong Zhang)

Agency: Purdue University, HHS MRI Pilot Grant
Title of Grant: Neural Mechanisms of Adaptive Context Reinstatement
Duration of Funding: 1 year (7/1/2020 – 12/1/2021)
Total Amount of Award: \$3,000
Role: Principle Investigator

Agency: Tourette Syndrome Association
Title of Grant: Investigation of Neural Mechanisms of Competing Response Therapy Using Real-Time fMRI
Duration of Funding: 1 year (5/1/2012 – 5/31/2013)
Total Amount of Award: \$75,000
Role: Principle Investigator

PEER-REVIEWED PUBLICATIONS

- Chiu, Y.-C.**, Sun, F., & Dietz, G. A. (2021). Independent subsequent memory effects of conflict resolution and response inhibition. *Psychological Research*, 0123456789. <https://doi.org/10.1007/s00426-021-01575-6>
- Foli, K. J., Forster, A., Cheng, C., Zhang, L., & **Chiu, Y.-C.** (2021). Voices from the COVID-19 frontline: Nurses' trauma and coping. *Journal of Advanced Nursing*, 77(9), 3853–3866.
- Kang, M. S., & **Chiu, Y.-C.** (2021). Proactive and reactive metacontrol in task switching. *Memory & Cognition*, 49(8), 1617–1632. <https://doi.org/10.3758/s13421-021-01189-8>
- Kiyonaga, A., Powers, J. P., **Chiu, Y.-C.**, & Egner, T. (2021). Hemisphere-specific Parietal Contributions to the Interplay between Working Memory and Attention. *Journal of Cognitive Neuroscience*, 33(8), 1428–1441. https://doi.org/10.1162/jocn_a_01740
- Chiu, Y.-C.**, Fröber, K., & Egner, T. (2020). Item-specific priming of voluntary task switches. *Journal of Experimental Psychology: Human Perception and Performance*, 46(4), 434–441.
- Chiu, Y.-C.** (2019). Automating adaptive control with item-specific learning. In K. Federmeier (Ed.). *The Psychology of Learning and Motivation*, 71, 1-37.
- Chiu, Y.-C.**, & Egner, T. (2019). Cortical and subcortical contributions to context-control learning. *Neuroscience and Biobehavioral Reviews*, 99, 33–41.

- Yin, S., Sui, J., **Chiu, Y.-C.**, Chen, A., & Egner, T. (2019). Automatic Prioritization of Self-Referential Stimuli in Working Memory. *Psychological Science*, *30*(3), 415–423.
- Chiu, Y.-C.**, & Egner, T. (2017). Cueing Cognitive Flexibility : Item-Specific Learning of Switch Readiness. *Journal of Experimental Psychology: Human Perception and Performance*, *43*(12), 1950–1960.
- Chiu, Y.-C.**, Jiang, J., & Egner, T. (2017). The Caudate Nucleus Mediates Learning of Stimulus-Control State Associations. *Journal of Neuroscience*, *37*(4), 1028–1038.
- Chiu, Y.-C.**, & Egner, T. (2016). Distractor-relevance determines whether task-switching enhances or impairs distractor memory. *Journal of Experimental Psychology : Human Perception and Performance*, *42*(1), 1–5.
- Gmeindl, L. *, **Chiu, Y.-C.***, Esterman, M. S., Greenberg, A. S., Courtney, S. M., & Yantis, S. (2016). Tracking the will to attend: Cortical activity indexes self-generated, voluntary shifts of attention. *Attention, Perception, & Psychophysics*, *78*(7), 2176–2184.
- Chiu, Y.-C.**, & Egner, T. (2015). Inhibition-Induced Forgetting Results from Resource Competition between Response Inhibition and Memory Encoding Processes. *Journal of Neuroscience*, *35*(34), 11936–11945.
- Chiu, Y.-C.**, & Egner, T. (2015). Inhibition-induced forgetting: when more control leads to less memory. *Psychological Science*, *26*(1), 27–38.
- Chiu, Y.-C.**, Cools, R., & Aron, A. R. (2014). Opposing effects of appetitive and aversive cues on go/no-go behavior and motor excitability. *Journal of Cognitive Neuroscience*, *26*(8), 1851–1860.
- Chiu, Y.-C.**, & Aron, A. R. (2014). Unconsciously triggered response inhibition requires an executive setting. *Journal of Experimental Psychology: General*, *143*(1), 56–61.
- Yang, C., **Chiu, Y.-C.**, & Yeh, Y. (2012). Feature saliency affects delayed matching of an attended feature. *Journal of Cognitive Psychology*, *24*(6), 714–726.
- Greenberg, A. S., Verstynen, T., **Chiu, Y.-C.**, Yantis, S., Schneider, W., & Behrmann, M. (2012). Visuotopic cortical connectivity underlying attention revealed with white-matter tractography. *Journal of Neuroscience*, *32*(8), 2773–2782.
- Chiu, Y.-C.**, Esterman, M. S., Gmeindl, L., & Yantis, S. (2012). Tracking cognitive fluctuations with multivoxel pattern time course (MVPTC) analysis. *Neuropsychologia*, *50*(4), 479–486.
- Chiu, Y.-C.**, Aron, A. R., & Verbruggen, F. (2012). Response suppression by automatic retrieval of stimulus-stop association: evidence from transcranial magnetic stimulation. *Journal of Cognitive Neuroscience*, *24*(9), 1908–1918.
- Chu, C., Mourão-Miranda, J., **Chiu, Y.-C.**, Kriegeskorte, N., Tan, G., & Ashburner, J. (2011). Utilizing temporal information in fMRI decoding: classifier using kernel regression methods. *NeuroImage*, *58*(2), 560–571.
- Chiu, Y.-C.**, Esterman, M., Han, Y., Rosen, H., & Yantis, S. (2011). Decoding task-based attentional modulation during face categorization. *Journal of Cognitive Neuroscience*, *23*(5), 1198–1204.
- Tamber-Rosenau, B. J., Esterman, M., **Chiu, Y.-C.**, & Yantis, S. (2011). Cortical mechanisms of cognitive control for shifting attention in vision and working memory. *Journal of Cognitive Neuroscience*, *23*(10), 2905–2919.
- Esterman, M., Tamber-Rosenau, B. J., **Chiu, Y.-C.**, & Yantis, S. (2010). Avoiding non-independence in fMRI data analysis: leave one subject out. *NeuroImage*, *50*(2), 572–576.
- Esterman, M., **Chiu, Y.-C.**, Tamber-Rosenau, B. J., & Yantis, S. (2009). Decoding cognitive control in human parietal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, *106*(42), 17974–17979.
- Chiu, Y.-C.**, & Yantis, S. (2009). A domain-independent source of cognitive control for task sets: shifting spatial attention and switching categorization rules. *Journal of Neuroscience*, *29*(12), 3930–3938.
- Leonard, C. J. *, & **Chiu, Y.-C.*** (2007). What you set is not what you see: unconscious activation of cognitive control. *Journal of Neuroscience*, *27*(42), 11170–11171.

Lee, C., Tsai, J., **Chiu, Y.-C.**, & Tzeng, O. J. L. (2006). The Early Extraction of Sublexical Phonology in Reading Chinese Pseudocharacters : An Event-Related Potentials Study. *Language and Linguistics*, 7.3, 619–636.

Yeh, Y., Yang, C., & **Chiu, Y.-C.** (2005). Binding or prioritization : The role of selective attention in visual short-term memory. *Visual Cognition*, 12(5), 759–799.

Google Scholar: <https://scholar.google.com/citations?user=xQPUBnQAAAAJ&hl=en>

ORCID: <https://orcid.org/0000-0001-6768-509X>

INVITED TALKS

2022 Mar Brain Awareness Week in Ukraine, Ukrainian Society for Neuroscience, Virtual
2021 Mar Midwestern Psychological Association (MPA) Conference, Virtual
2019 Nov Department of Psychology, University of Illinois Urbana-Champaign, Champaign, IL, USA
2019 Sep European Society for Cognitive Psychology, Tenerife, Spain
2018 Oct Society for Psychophysiological Research, Quebec City, Quebec, Canada
2016 Jan Michigan State University, East Lansing, MI, USA
2015 Dec McGill University, Montreal, Quebec, Canada
2014 Mar North Carolina Cognition Group Conference, Durham, NC, USA
2012 Oct Cognitive Neural System Seminar at UC San Diego, La Jolla, CA, USA
2012 Oct Cognitive Brownbag at UC San Diego, La Jolla, CA, USA
2012 Oct Society for Neuroscience, New Orleans, LA, USA
2012 Sep Institute of Cognitive Neuroscience at National Central University, Taoyuan, Taiwan
2012 Jul Cognitive Science Association for Interdisciplinary Learning, Portland, OR, USA
2011 Jan Cognitive Neural System Seminar at UC San Diego, CA, USA
2010 Feb CPCN Seminar at UC Santa Barbara, Santa Barbara, CA, USA
2010 Jan Institute of Cognitive Neuroscience at National Central University, Taoyuan, Taiwan
2009 Dec Colloquium at National Cheng Kung University, Tainan, Taiwan
2009 Dec Colloquium at National Taiwan University, Taipei, Taiwan

AD HOC REVIEWER

Journal of Neuroscience • *European Journal of Neuroscience Cerebral* • *Cortex* • *Scientific Report* • *Neuropsychologia* • *Psychological Science* • *Neuroimage* • *Journal of Neurophysiology* • *Experimental Brain Research* • *Journal of Cognitive Neuroscience* • *Cognitive, Affective, and Behavioral Neuroscience* • *Cognition* • *Journal of Experimental Psychology: General* • *Journal of Experimental Psychology: Learning, Memory, and Cognition* • *Journal of Experimental Psychology: Human Perception and Performance* • *Memory and Cognition* • *Memory* • *Attention, Perception, & Psychophysics* • *Frontiers in Psychology* • *Behavioral Neuroscience* • *Human Brain Mapping* • *International Journal of Psychophysiology* • *Consciousness and Cognition* • *Acta Psychologica* • *BMC Neuroscience* • *Psychonomic Bulletin & Review* • *Brain Research* • *Cognitive Psychology* • *Cognition and Emotion* • *Journal of Applied Research in Memory and Cognition* • *Quarterly Journal of Experimental Psychology* • *Psychological Research* • *eNeuro* • *Journal of Psychophysiology* • *iScience*

Editorial Board

International Journal of Psychophysiology

Grant Reviewing

National Science Foundation, USA

Air Force Office of Scientific Research, USA
National Science Center, Poland
Collaborative Research Centre, Germany

UNDERGRADUATE MENTEES

Purdue University

Haris Hasan, Linh Phan, Hannah Hui, Ellis Lin, Madeline Gabriel, Brock Zuyderwyk, Luke Dubec, Gloria Dietz, Skyler Van Meter, Elizabeth German, Amel Chekili, Kanika Garg, Nivedha Madhan, Hyun Joo Shin, Zhimei Niu, Georgia Gross, Fangqin Sun

University of California San Diego:

2011-2013: Oly Khowash, Melissa Aguilar, Carol Lee, Jon Strunk

TEACHING

Purdue University:

- Perceptual Processes	2020 Spring
- Introduction to Cognitive Psychology	2019 Spring; 2021 Spring; 2022 Spring
- Sensory and Perceptual Processes	2018 Fall, 2019 Fall, 2020 Fall; 2021 Fall

Johns Hopkins University:

- Laboratory in Analysis of Psychological Data	2007 Fall
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SELECTED CONFERENCE PRESENTATIONS (in the recent 7 years)

Kang, M. S., & **Chiu, Y.-C.** (2021, November). Does Aversiveness Enhance Metacontrol: Some Evidence for Gender Differences. Poster presented at the 62nd Annual Meeting of the Psychonomics Society, Virtual.

Foli, K., Forster, A., Zhang, L., & **Chiu, Y.-C.** (2021, March). Voices From the COVID-19 Frontline: Nurses' Trauma and Coping. Talk given at Sigma Theta Tau International 46th Biennial Convention, Indianapolis, IN.

Chiu, Y.-C. (2021, April). Cognitive control-induced forgetting vs. remembering. Talk given at the 92nd Midwestern Psychological Association (MPA) Conference, Virtual.

Nack, C., & **Chiu, Y.-C.** (2020, November). Cognitive Control When There's Something in It for Me: Item Specific Switch Conditioning. Poster presented at the 61st Annual Meeting of the Psychonomics Society, Virtual.

Kang, M. S., & **Chiu, Y.-C.** (2020, November). Item-specific and list-wide effects of control learning. Poster presented at the 61st Annual Meeting of the Psychonomics Society, Virtual.

Dietz, G., **Chiu, Y.-C.** (2020, August). Predicting Subsequent Memory From Cognitive States During Learning. Talk presented at the 2020 Summer Undergraduate Research Fellowship (SURF) Symposium, Virtual.

Niu, Z., Gross, G., & **Chiu, Y.-C.** (2019, April). Item-Specific Switch Probability Manipulation Modulates Voluntary Task Switching. Poster presented at the annual meeting of the Psychology Undergraduate Research Conference, West Lafayette, IN.

Bejjani, C., Whitehead, P. S., Sali, A. W., **Chiu, Y.-C.**, & Egner, T. (2019, March). Assessing causal contributions of parietal cortex to learned cognitive flexibility. Poster presented at the 26th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Kiyonaga, A., Powers, J., **Chiu, Y.-C.**, & Egner, T. (2016, April). Causal parietal contributions to dual-task working memory and visual attention performance. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

- Chiu, Y.-C., & Egner, T. (2015, April).** The neural bases of inhibition-induced forgetting. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Chiu, Y.-C., & Egner, T. (2014, April).** Inhibition-induced forgetting: when more control leads to less memory. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.