

## **Judy Yi-Chieh Chiu, Ph.D.**

### **Professional Profile**

Dr. Chiu utilizes her training in human cognition, cognitive neuroscience, and experimental psychology to assess the cognitive, perceptual, and human factors issues related to accidents and injuries. She has experience analyzing traffic collisions, trips and falls, slips, and visibility issues. Dr. Chiu has also examined reaction times related to drivers, motorcyclists, cyclists and pedestrians. She is skilled in research methods involving large-scale datasets and the testing of human subjects.

Prior to joining InSciTech, Dr. Chiu was a graduate student and post-doctoral research associate at the University of Illinois at Urbana Champaign, Cognitive Neuroscience and Cognitive divisions in the Department of Psychology. Her research focused on how human memory for everyday events can be affected by negative emotion, repeated exposure, and contextual information. She utilized qualitative and quantitative methods, including statistical modeling and analyses of human experimental behavior, eye-movement, and functional neuroimaging (fMRI) data.

### **Credentials**

#### **University of Illinois at Urbana Champaign, United States of America**

Ph.D. Cognitive Neuroscience, Department of Psychology - Dec, 2017

#### **University of York, United Kingdom**

M.Sc. Cognitive Neuroscience, Department of Psychology - Oct, 2006

### **Publications and Conference Presentations**

Wang, T.H., Chiu, Y. C., Beck, D.M., Lewis-Peacock, J. A., Sahakyan, L (2019) Separation of items from their context observed via fMRI pattern analysis of item-method directed forgetting. Poster presentation at the Context and Episodic Memory Symposium, Philadelphia, PA.

Chiu, Y. C., Wang, T.H., Beck, D.M., Lewis-Peacock, J. A., Sahakyan, L. (2018) Separation of items from their context observed via fMRI pattern analysis of item-method directed forgetting. Poster presentation at the Psychonomic Society Annual Meeting, New Orleans, LA.

Wang, T.H., Chiu, Y. C., Beck, D.M., Lewis-Peacock, J. A., Sahakyan, L. (2018) Separation of items from their context observed via pattern analysis of item-method directed forgetting. Poster presentation at the Society for Neuroscience, San Diego, CA.

Whitlock, J. S., Chiu, Y. C., Sahakyan, L. (2018) What can eye movements tell us about intentional and incidental forgetting. Poster presentation at the Psychonomic Society Annual Meeting, New Orleans, LA.

Chiu, Y.C., Sahakyan, L., Gonsalves, B. D., Cohen, N.J. (2017) Differential effect of repetition for item and context information in recognition memory: an fMRI investigation. Poster presentation at the Context and Episodic Memory Symposium, Philadelphia, PA.

Chiu, Y. C., Dulas, M. R., Watson, P., Gonzalez, R.V.L., Cohen, N.J. (2016) Stability enhances relational but not item information and influences memory organization as indexed by eye movements. Poster presentation at the Cognitive Neuroscience Society, New York, NY.

Chiu, Y.C., Karosevica, I., Monti, J.M. & Cohen, N.J. (2014) The effects of negative emotion on relational binding information with eye movement measures. Poster presentation at the Cognitive Neuroscience Society, Boston, MA.

Chiu, Y. C., Dolcos, F., Gonsalves, B. D., & Cohen, N. J. (2013). On opposing effects of emotion on contextual or relational memory. *Frontiers in Psychology*, 4.

Chiu, Y.C. & Gonsalves, B. (2012) An fMRI study of the neural correlates of recognition memory strength for item and relational information. Poster presentation at the Cognitive Neuroscience Society, Chicago, IL.

Chiu, C.D., Yeh, Y.Y., Huang, Y.M., Wu, Y.C. & Chiu, Y.C. (2009). The set switching function of nonclinical dissociators under negative emotion. *Journal of Abnormal Psychology*, 118 (1), 214-222.

Asghar A, Chiu, Y.C., Hallam, G., Liu, S., Mole, H., Wright, H. & Young, A.W. (2008) An amygdala response to fearful faces with covered eyes. *Neuropsychologia*, 46, 2364-2370.