

Curriculum Vitae

Yi-Shin Sheu

Date of birth: 07/23/1983
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EDUCATION

The Johns Hopkins University, Baltimore, MD
Ph.D., Psychological and Brain Sciences **2015**
Dissertation: "Cognitive Control of Abstract Rules" (Advisor: Dr. Susan Courtney)

The Johns Hopkins University, Baltimore, MD
M.A., Psychological and Brain Sciences **2011**
Thesis: "Neuroplasticity Underlying Working Memory Networks:
Evidence From ICA-Based fMRI Analysis in Patients with Multiple Sclerosis"

National Taiwan University, Taipei, Taiwan
B.S., Psychology (Graduated on Dean's List) **2006**

AWARDS AND HONORS

Taiwan Ministry of Education Advanced Study Scholarship **2009 – 2011**
Two years of tuition and life expenses support for a total of \$50,000 USD.

WORKING EXPERIENCE

McLean Hospital/Harvard Medical School, Belmont, MA
Developmental Biopsychiatry Research Program, P.I. Martin Teicher, M.D.,
Ph.D.

Research Specialist **March 2008 – April 2009**

Conducted sophisticated statistical analysis on neuroimaging and behavioral data, which resulted in numerous peer-review publications in high impact journals. Directly involved in the writing, reviewing, and editing of scientific manuscripts. Performed literature review for grant proposals. Presented research in scientific conferences.

Assisted grant proposal submission and annually progress report for several federal funded research projects.

Research Assistant

June, 2006 – Feb.2008

Managed and maintained a database over 250 human brain imaging data and psychological testing data. Coordinated research studies and recruitment. Assisted federal grant proposal submission, including pilot data collection and analysis. Presented research in scientific conferences.

TEACHING EXPERIENCE

Teaching Assistant, Department of Psychological and Brain Sciences, Johns Hopkins University

Undergraduate

Law, Psychology, and Policy-making	Fall, 2014
Research Methods in Experimental Psychology	Spring, 2012
Physiological Psychology	Fall, 2010
Functional Human Neuroanatomy	Spring, 2010

Graduate

Advanced Statistical Method	Fall, 2011
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Guest lecturer

Cognitive Control	Fall, 2011
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PEER-REVIEWED PUBLICATIONS

Tomoda, A., Suzuki, H., Rabi, K., **Sheu, Y. S.**, Polcari, A., & Teicher, M. H. (2009). Reduced prefrontal cortical gray matter volume in young adults exposed to harsh corporal punishment. *Neuroimage*, *47*, T66-T71.

Sheu, Y. S., Polcari, A., Anderson, C. M., & Teicher, M. H. (2010). Harsh corporal punishment is associated with increased T2 relaxation time in dopamine-rich regions. *Neuroimage*, *53*(2), 412-419.

Teicher, M. H., Samson, J. A., **Sheu, Y. S.**, Polcari, A., & McGreenery, C. E. (2010). Hurtful words: association of exposure to peer verbal abuse with elevated psychiatric symptom scores and corpus callosum abnormalities. *American journal of psychiatry*, *167*(12), 1464-1471.

- Tomoda, A., **Sheu, Y. S.**, Rabi, K., Suzuki, H., Navalta, C. P., Polcari, A., & Teicher, M. H. (2011). Exposure to parental verbal abuse is associated with increased gray matter volume in superior temporal gyrus. *Neuroimage*, 54, S280-S286.
- Walsh, M., Montojo, C. A., **Sheu, Y. S.**, Marchette, S. A., Harrison, D. M., Newsome, S. D., ... & Courtney, S. M. (2011). Object working memory performance depends on microstructure of the frontal-occipital fasciculus. *Brain connectivity*, 1(4), 317-329.
- Sheu, Y. S.**, & Courtney, S. M. (2016). A neural mechanism of cognitive control for resolving conflict between abstract task rules. *Cortex*, 85, 13-24.

PUBLISHED BOOK CHAPTERS

- Seraphin, S. B., Teicher, M. H., Rabi, K., **Sheu, Y. S.**, Andersen, S. L., Anderson, C. M., Choi, J., Tomoda, A. (2010). Ontogenetic perspectives on the neurobiological basis of psychopathology following abuse and neglect. In Worthman, C. M., Plotsky, P. M., Schechter, D. S., Cummings, C. A. (Eds.) *Formative Experiences* (p.p. 308-330). New York: Cambridge University Press
- Teicher, M. H., Rabi, K., **Sheu, Y. S.**, Seraphin, S. B., Andersen, S. L., Anderson, C. M., Choi, J., Tomoda, A. (2010). Neurobiology of childhood trauma and adversity. In Lanius, R. A., Vermetten, E., Pain, C. (Eds.) *The Impact of Early Life Trauma on Health and Disease* (p.p. 112-122). New York: Cambridge University Press

PUBLISHED ABSTRACTS AND CONFERENCE PROCEEDINGS

- Sheu, Y. S.** & Courtney, S. M. (2014). A conflict-specific cognitive control mechanism for task rules: switching between task rules and resolving rule conflicts. Proceedings of society for neuroscience, the 44th Annual Meeting (Washington DC, USA)
- Sheu, Y. S.** & Courtney, S. M. (2013). Testing the biased competition model of attention in the selection of abstract task rules. Proceedings of society for neuroscience, the 43th Annual Meeting (San Diego, USA)
- Sheu, Y. S.**, Montojo, C., Walsh, M, Courtney, S. M. (2010). Altered prefrontal connectivity during spatial and object working memory performance in multiple sclerosis. Proceedings of the cognitive neuroscience society (CNS), Annual Meeting. (Montreal, Canada)
- Sheu, Y. S.**, Polcari, A., Teicher, M. H. (2008). The effect of methylphenidate on functional connectivity of the default mode

network. Proceedings of society for neuroscience (SfN), the 38th Annual Meeting. (Washington DC, USA)

LANGUAGES

Mandarin – native language

English – speak fluently and read/write with high proficiency

MEMBERSHIPS

Society for Neuroscience

Cognitive Neuroscience Society