Yi-Shin Sheu, Ph.D.

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PROFESSIONAL SUMMARY

- Cognitive neuroscientist with > 14 years of experience in conducting human behavioral and brain scientific research.
- Excellent written communication skills: authored 11 peer-reviewed articles and 2 book chapters totaling over 1038 citations. Elected member of the Editorial Board of Medical Medicine Monitor.
- Outstanding communicator who gave numerous talks and presentations at international conferences and taught undergraduate classes at Johns Hopkins on research methods & statistics.

EDUCATION

Ph.D., Psychological and Brain Science, Johns Hopkins University, Baltimore, MD (2009 - 2015)
B.S., Psychology, National Taiwan University, Taipei, Taiwan (2003 – 2006)

TECHNICAL SKILLS

Programming: Python (Pandas, SciPy, Matplotlib, NumPy, Seaborn, Scikit Learn), MATLAB, SPSS, SQL, R.
Analysis Methods: GLM, linear/multivariate/logistic/polynomial regression, PCA, Bootstrapping, SVMs

PROFESSIONAL EXPERIENCE

Postdoctoral Fellow. *Johns Hopkins University School of Medicine, Baltimore, MD (2015 – Current)*
- Neuroimaging & Modulation Lab: Used brain imaging (fMRI, structural MRI), brain stimulation (TMS, TDCS), and eye-tracking techniques to explore the brain-behavior relations. Authored 5 peer-reviewed articles on the role that the cerebellum plays in cognition and alcohol addiction.
- Designed and administered experiments (written in MATLAB) and surveys; developed and maintained a database of brain images, heart rate & respiration recordings, and behavioral metrics.
- Performed time-series analysis as well as parametric modeling of neuroimaging data (> 3 billion spatio-temporal datapoints) & behavioral metrics in MATLAB and SPSS using GLM.
- Provided training and mentoring to junior researchers in conducting experiments & data analysis.
- Served as an elected member of the Editorial Board of Medical Medicine Monitor journal.

Graduate Student Researcher. *Johns Hopkins University, Baltimore, MD (2009 – 2015)*
- Used brain imaging techniques and self-developed cognitive tasks to study the neural bases of higher cognitive functions. Authored 2 publications on the neural mechanism of cognitive control.
- Performed parametric modeling using general linear model in MATLAB as well as multivariate pattern analysis using linear SVM classification in Python (NiPy, PyMVPA).
- Taught undergraduate courses on research methods, statistics, and cognitive control; personally mentored 20+ undergraduate students on their individual research project for class.

Research Specialist. *McLean Hospital/Harvard Medical School, Belmont, MA (2006 – 2009)*
- Developmental Biopsychiatry Research Program: Assessed structural or functional changes of the developing brain associated with various childhood stressors. Authored 4 peer-reviewed articles and 2 book chapters on the neurobiological effect associated with childhood adversity & trauma.
- Performed volumetric & fiber-tracking statistics on structural and diffusion tensor imaging data and examined surveys & psychological testing data to gather insights on the brain-behavior relations.
- Managed a brain imaging database of 250+ human participants and developed bash scripts to streamline data processing and analysis to enhance overall lab productivity.