

YI-SHIN SHEU

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Summary of Qualifications

- Postdoctoral Research Scientist with expertise in Cognitive Psychology and Neuroscience; 15+ years of experience in research design, data analysis, and scientific communication.
- Programming Languages: MATLAB, Python (Pandas, NumPy, Matplotlib), UNIX/Bash/C-Shell, SPSS, R
- Statistical Analysis: General Linear Models (ANOVA, ANCOVA, Linear Regression), Classification (Logistic Regression, SVM), Permutation Tests (Cross Validation), Dimension Reduction (PCA, ICA).

Education

Ph.D. in Psychological and Brain Sciences, Johns Hopkins University. Baltimore, MD.	2015
M.A. in Psychological and Brain Sciences, Johns Hopkins University. Baltimore, MD.	2011
B.S. in Psychology, National Taiwan University. Taipei, Taiwan.	2006

Experience

Postdoctoral Researcher Oct 2015 - present

Cognitive Neuroscience, Neurology Dept, Johns Hopkins School of Medicine. Baltimore, MD.

- Designed and conducted research studies on the role of the cerebellum in memory and learning.
- Collected data through a wide range of methodologies including behavioral testing, neuroimaging, eye tracking, surveys and interview.
- Programmed task interface and analyzed data using MATLAB, Python, and SPSS.
- Managed and mentored teams of 2-3 graduate research assistants on an annual basis
- Authored 4 manuscripts and gave conference talks on cerebellar functions in cognition.

Graduate Researcher. Sep 2009 - Sep 2015

Psychological and Brain Sciences, Johns Hopkins University. Baltimore, MD.

- Designed and conducted experiments to explore the neural mechanisms of cognitive control and working memory.
- Performed advanced statistical analysis by implementing machine learning and ICA algorithms on neuroimaging data.
- Taught graduate course on Statistics and 5 undergraduate courses including Research Methods.
- Mentored 15+ undergraduate students on independent research projects.
- Presented 15+ departmental/conference talks and posters.
- Authored 1 manuscript describing the underlying mechanisms behind task rule selection

Research Specialist. Jun 2006 - Apr 2009

Developmental and Biopsychiatry Research Program, McLean Hospital. Belmont, MA.

- Worked with a group of psychiatrists and scientists on research projects that explored the effect of childhood stressors on brain development and mental health
- Managed an imaging database of 250+ human participants and wrote BASH scripts to streamline data processing and analysis.
- Conducted statistical analysis on neuroimaging data, which led to authorship of 4 manuscripts and 2 book chapters.