Xiaojue Zhou

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EDUCATION

FALL 2018 – PRESENT   **PhD, Cognitive Neuroscience**
University of California - Irvine

FALL 2012 – SPRING 2016   **Bachelor of Science, Psychology and Statistics (Honor)**
University of Wisconsin - Madison

RESEARCH EXPERIENCE

Graduate Researcher   Sep 2018 - Current
Visual Perception and Neuroimaging Lab
Advisor: Emily Grossman
- Collect, preprocess and analyze data for brain regions related to action perception
- Mentor undergraduate research assistant

Research Specialist   May 2016 – July 2018
Kalin Lab, University of Wisconsin – Madison, School of Medicine and Public Health
Advisor: Ned Kalin
- Construct preprocessing pipeline using ANTS, FSL, Afni, and DTI-TK and analyze non-human primate and human structural data, resting-state fMRI, PET and DTI
- Diagnose and improve anatomy T1 normalization and skull-stripping in different development stage's nonhuman primates
- Investigate correlation between longitudinal changes of non-human primate's behaviors and neuroimaging (resting-state fMRI and PET) to understand anxiety development in brain and contributing factors

Research Assistant   January 2015 – August 2016
Knowledge and Concepts Lab, University of Wisconsin – Madison
Advisor: Timothy Rogers
- Employ parallel computing techniques (HTC Condor) to facilitate analysis of fMRI data in MATLAB and Unix environment
- Analysis of cross-modality cognition fMRI data to find object mental representations by using modified LASSO including 3D neuron grouping feature
- Collect, organize and transform fMRI coordinates from over 125 literatures and perform meta-analysis to find human category representations in brain

Research Intern   June 2015 – Oct 2015
Stanford Cognitive & Systems Neuroscience Lab, Stanford School of Medicine
- Score behavioral tests such as WASI WAIT from children and interpret results
- Literature review DTI studies and produce experimental questions about white matter

development of language ability, mathematical ability and face perception
- Preprocess 45 subject's DTI data using existing preprocessing pipeline

Research Assistant   Sep 2013 – June 2015
Language and Cognitive Neuroscience Lab, University of Wisconsin Madison
Advisor: Maryellen Mcdonald
- Construct pictures naming experiment using Qualtrics and collect data on Amazon Turk
- Establish experimental procedure in Eprime to see priming effects of Chinese words on semantic level perception
- Analyze research data by calculating various feature statistics to get most reliable and items to represent Chinese naming agreements

TEACHING EXPERIENCE _____ _____
Teaching Assistant   Sep 2018 – Current
University of California-Irvine
- Probability & Statistics
- Cognitive Neuroscience
- Introduction to Linguistics

HONORS AND AWARDS _____
2015   **Trewartha &Mensink Honors Senior**
              Awarded for Senior Thesis: Statistical Analysis of Weighted Survey Data

PUBLICATIONS _____
Oler, J., Kenwood, M., Fox, A., Tromp, D., **Zhou, X.**, Riedel, M., ... & Kalin, N. (Under Review). 833- Fibers coursing through the orbitofrontal cortex are critical for the modulation of primate dispositional anxiety. *Journal of Neuroscience*

PRESENTATIONS_____
"Statistical Analysis of Weighted Survey Data", Senior Honor Thesis Symposium, University of Wisconsin – Madison, 2016

TECHNICAL/STATISTICAL SKILLS_____
Neuroimaging processing: ANTS, AFNI, FSL, DTI-TK
Programing: R, Bash/Cshell R, MATLAB, Python, SPSS, Perl
Prallel computing: HTC Condor, H2O (similar to Spark)
Documentation: Excel, LaTeX, Markdown, Eprime, Adobe Photoshop
Language: Chinese, English, Japanese

EXTRACURRICULAR ACTIVITIES_____
IMPAS 2014 Annual Meeting of the Psychometric Society
2015 DataHackthon: Rise of the Machines
2017 Wisconsin Symposium on Emotion
2017 Beyond the lab: using big data to discover principles of cognition by Psychonomic Society