

# Hang Yang

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## **SUMMARY OF ACADEMIC SKILLS AND EXPERIENCE**

- EEG data analysis\* in EEGLAB, Matlab and BrainVision Analyzer
- fMRI data analysis in AFNI and BrainVoyager
- Matlab and Python programming
- Stats and data visualization in R, Python and SPSS
- Extensive research experience in studies of children and adults using EEG (Brain Products) and eye-tracking (Eyelink 1000) techniques

## **EDUCATION**

**Master of Education (Clinical Cognitive Neuroscience)** 09/2015 - 06/2018

Center of Cognition of Brain Disorders, Hangzhou Normal University, China

**Bachelor of Engineering (Civil Engineering)** 09/2009 - 06/2013

School of Mechanics and Civil Engineering, China University of Mining and Technology of Beijing, China

## **RESEARCH INTERESTS**

Neural basis of early process of visual word recognition

Single trial analysis and cognitive correlates of trial-by-trial variability

Visual perception and selective attention

Cognitive and neural correlates of reading development and developmental dyslexia

\* Including ERPs, single trial analysis, spectrum and time-frequency analysis, connectivity analysis

## **COURSES**

### **School courses**

- Advanced Mathematics (Calculus)
- Probability Theory & Mathematical Statistics
- Functional MRI Data Analysis
- Multivariate Stats in R
- Developments in Psychology
- Research Methodology in Psychology

### **Self-study online courses**

- Data science specialization of John Hopkins University (Nine courses)

## **PUBLICATIONS**

### **Published paper**

**Yang, H.**, Zhao, J., Gaspar, C. M., Chen, W., Tan, Y., & Weng, X. (2017). Selectivity of N170 for visual words in the right hemisphere: Evidence from single-trial analysis. ***Psychophysiology***, 54(8), 1128–1137.

### **Submitted paper**

Zhao J., **Yang H.**, Weng X., Wang Z. Emergent attentional bias towards visual words in the environment: Evidence from eye movements. ***Frontiers in Psychology***.

### **Conference presentations**

**Yang, H.**, Zhao J., Tan Y., Gaspar, C., Weng X. (Dec.8-10, 2016). Selectivity of N170 for visual words in the right hemisphere: Evidence from single-trial analysis. The 16th International Conference on the Processing of East Asian Languages (ICPEAL), Guangzhou, China.

**Yang, H.**, Tan Y., Shi Y., Zhao J., Wang Z., Weng X. (Oct. 14- Oct. 15, 2016). Development of attentional bias towards visual word forms in the environment, The 19<sup>th</sup> national conference on psychology, Xian, China.

Zhao J., Li S., **Yang H.**, Tan Y., Cheng Q., Weng X. (Dec.8-10, 2016). Fine neural tuning for print follows an inverted-U shape curve during reading development. The 16th International Conference on the Processing of East Asian Languages (ICPEAL), Guangzhou, China.

Shi Y., **Yang H.**, Ni L., He M., Zhang L. (Oct. 14- Oct. 15, 2016). The behavioral performance and electroencephalogram characteristics of self-control learning in inhibitory control, The 19<sup>th</sup> national conference on psychology, Xian, China

## **Experience**

**Lecturer** 2017.9

EEG introduction and preprocessing procedures based on EEGLAB (50 students, 3 hours)

MATLAB overview and EEG signal processing with MATLAB scripts (50 students, 3 hours)

**Programmer (MATLAB)** 2017.9.16 - 2017.9.20

The 14<sup>th</sup> China Post-Graduate Mathematical Contest in Modeling

Project Name: A background model re-initialization method to remove ghosts for ViBe algorithm in foreground object extraction

**Student host** 2016.9 - 2017.1

Lab meeting of cognition and behavior group

**Research assistant** 2014.4 - 2015.9

Center of Cognition of Brain Disorders, Hangzhou Normal University

## **AWARDS & HONORS**

- 2017 National Scholarship for Graduate Students (**CNY 20K**)
- 2017 Hangzhou Normal University Graduate Student Scholarship (**CNY 1.2K**)
- 2016 Hangzhou Normal University Graduate Student Scholarship (**CNY 0.8K**)
- 2015 Hangzhou Normal University Graduate Student Scholarship (**CNY 0.93K**)

## **REFERENCES**

### **Dr. Xuchu Weng, Professor**

Institute for Brain Research and Rehabilitation

South China Normal University

55 Zhongshan (West) Road

Guangzhou Guangdong China 510631

[wengxc@psych.ac.cn](mailto:wengxc@psych.ac.cn)

Relationship: Professor and supervisor for 3 years

### **Dr. Jing Zhao, Assistant Professor**

Center of Cognition of Brain Disorders

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Relationship: Researcher and supervisor for 3 years