

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

Cognitive and neural correlates of reading development and developmental dyslexia

Visual perception and selective attention

Single trial analysis and cognitive correlates of latency variability

* 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 19th 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 19th 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 14th 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

Relationship: Professor and supervisor for 3 years

Dr. Jing Zhao, Assistant Professor

Center of Cognition of Brain Disorders

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Hangzhou Zhejiang China 311121

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Relationship: Researcher and supervisor for 3 years