

DI YANG

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No. 37, College City Center Road, Shapingba District, Chongqing, China

Neuroimaging and Signal Processing | Psychology experiment design | Data Analytics

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- Interests in psychology research about emotional arousal, attention, empathy
 - Rich experience in Neuroimaging and Signal Processing, data analysis and visualization, machine learning classification applications, behavior and Eye tracking data

SKILLS

- Language: Fluent in written and spoken English, proficient in Chinese Mandarin.
- Neuroimaging and Signal Processing: Fluent in analysis about ERPs, EEG (Time-frequency and others), FMRI.
- Data Analysis & Visualization: SPSS, G-power, M-plus.
- Software: Microsoft Office, Visual Studio, Adobe Photoshop, Tobii Pro Studio/VR (Eye Movement test and measuring pupil diameter).
- Programming: familiar with Matlab (EEGLAB), E-prime.

EDUCATION

College of Psychology, Chongqing Normal University September 2019 - July 2022

Master of Science about Cognitive Neuroscience Chongqing, China

- Graduate Certificate in Psychology Science
- Cumulative GPA: 3.78 / 4.0 Ranking: 1 / 68
- Main Courses: Psychological research methods, Experimental design and E-prime programming, Advanced Psychological Statistics, Foundations of Neuroscience, Neuroimaging and Signal Processing

College of Management, Chengdu Technological University September 2014 - June 2018

Bachelor of Logistic Engineering Chengdu, China

- GPA: 3.65 / 4.0; Curricula: Foundations of Statistics, Foundations of English.

PUBLICATION

- **Di Yang**, Hengheng Tao, et al., Altered processing of social emotions in individuals with autistic traits [J]. (*Frontiers in Psychology*, Accepted)
- **Di Yang**, Xiong Li, et al., Skin color and attractiveness modulate empathy for pain: An event-related potential study. (*NeuroImage*, Under review)
- **Di Yang**, Boyang Qiu, et al., Autistic Traits and Empathy in Chinese College Students: Mediating Role of Emotional Regulation and Emotional Expression [J]. *Advances in Psychology* 11(6), 1504-1512. <https://doi.org/10.12677/AP.2021.116168> (in Chinese)

RESEARCH & PROJECTS

Recording cognitive control and arousal of adults with autism

Psychology laboratory at Chongqing Normal University January 2021 - Present

- Design experiment with professor Jing Meng and run the entire experiment through E-prime programming.
- Collected event-related potentials (ERPs) data and pre-processed using EEGLAB in MATLAB.

- Employ EEG to found ERPs about N2 at frontal-central.
- This research found diminished amplitudes of N2 components are associated with alteration in arousal level in individuals with autism and this research led to a publication at *Frontiers in Psychology*.

Eye tracking data analysis: The relationship between pupil diameter and arousal and attention

China Psychological Association Organization

October 2020 - June 2021

- Applied the Pupil diameter to psychophysiological indicator affected by changes in arousal and attention.
- Wrote literature reviews, recorded task-evoked pupil diameter changes using Tobii Studio, collected field data, performed data entry, performed data analysis using Excel, and SPSS.

EEG and behavioral data analysis: Skin color and attractiveness modulate empathy for pain

Psychology laboratory at Chongqing Normal University

October 2019 - May 2021

- Using PhotoShop software made composite figures as experimental materials
- The use of repeated measures analysis of variance found that the skin color and attractive factors of an individual affect our empathy for other individual's pain. This finding is revealed by the late components of ERP (P300 and LPP)
- This research is under review in journal of NeuroImage.

INTERNSHIP & WORKING EXPERIENCE

Research Assistant

February 2020 - July 2021

Psychology laboratory at Chongqing Normal University

Chongqing, China

- Currently work with professor Jing Meng on the statistical analysis of Neuroimaging and Signal data, including ERP, EEG, and functional magnetic resonance imaging (fMRI).
- Assisted china & Psychology Laboratory Center with projects "focus on pain and arousal". Wrote literature reviews, conducted intercept surveys at Rehabilitation Center, collected field data, performed data entry using Qualtrics, performed data analysis using Excel, SPSS and Matlab, wrote final report.

Intern

January 2019 - May 2021

China Psychological Association Organization

Chongqing, China

- Produced Mediating Effect Analysis model revealing the relationship between abnormal emotional expression and arousal control in individuals with high autistic traits during the COVID-19 pandemic in china using Mplus.
- Collect and distribute more than 1,000 questionnaires.
- Wrote literature and this research led to a publication at *Advances in Psychology*.

SERVICES AND LEADERSHIP EXPERIENCE

- Vice President in Students Career Development Association, Chengdu c Technological University.
- Founding President, Public Informatics Student Group, Chongqing Normal University.
- Peer reviewer and Translator, Journal of *Advances in Psychology*.
- Teaching Assistant, Psychological research methods, Chongqing Normal University.
- Laboratory Officer , Psychology laboratory at Chongqing Normal University.

HONORS & SCHOLARSHIPS

- 2019-2021 Dean's Scholarship (School of Psychological Science, Chongqing Normal University).
- 02/2021 Scholarship for Excellent Science Research Paper.
- 12/2019 Merit Student (awarded to students ranking in the top 10% GPA).
- 06/2021 Supported by the National Science Foundation of China.