CURRICULUM VITAE OF SHU ZHANG

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EDUCATION

Chinese Academy of Sciences (CAS), China

9/2017-9/2020

M.A. in brain neuroimaging development among human lifespan, developmental psychology

Supervisor: Prof. Gao-Xia Wei

Thesis: Physical activity and brain development during school age

University of Jinan (UJN), China

9/2012-7/2016

B.A. in applied psychology Supervisor: Dr. Yu-Wei Zheng

Thesis: Learning burnout and academic achievement

RESEARCH EXPERIENCE

Max-Planck Institute at Tübingen

10/2022-04/2023

Pre-doc research assistant

• Project 1: Programming and lab setup for EEG-based visual perception studies

Department of Computer Science and Technology, Tsinghua University Research assistant

8/2020-8/2022

- Project 1: Affective computing based on EEG and peripheral physiological signals
- Project 2: Facial expression recognition
- Project 3: Empathy in human-machine interaction

Supervisor: Prof. Dr. Yong-Jin Liu

Institute of Psychology, CAS

9/2017-9/2020

Graduate research assistant

- Project 1: MRI/FMRI Study: Chinese Color Nest Project, CCNP Engaged in the experimental design, behavior data collection, MRI data processing
- Project 2: Meta-analysis: The effect of Tai Chi Chuan on negative emotions
 Project leader. Engeged in study design, literature research, data analyzing, and writing the final paper.
- Project 3: ERP Study: Abdominal breathing among Qinghai inhabits Engaged in the experimental design, data processing and analyzing.

Supervisors: Prof. Dr. Xi-Nian Zuo and Prof. Dr. Gao-Xia Wei

HONORS AND AWARDS

2020 Merit Student (CAS)

2017-2019 Academic scholarship (CAS)

2012-2016 Academic scholarship (UJN)

2016 Excellent league member (UJN)

2013 Excellent league member (UJN)

2014 Second prize of "Star of Journalist" photography competition (UJN)

2013 Second prize in T-shirt design competition (UJN)

SKILLS

Softwares

FreeSurfer, EEGLAB, PsychToolBox

Coding languages

MATLAB, R and LATEX scripts

Instruments

EEG, Eyelink

INTERNATIONAL PROJECT INVOLVEMENT

Chinese Color Nest Project, CCNP

9/2017-9/2020

A large-scale program of modeling brain and behavioral trajectories for human lifespan (6-85 years old)

Research Center for Lifespan Development of Mind and Brain, CLIMB 12/2017-9/2020 Established to investigate normative development across the lifespan and brain/behavior associations in typical and atypical development

PUBLICATIONS

- 1. Liu Y, Liu X, Zhou C, **Zhang**, **S.**, et al. How to Evoke Empathetic Experience and Deepen Impression: The role of profile pictures in social media. Research Square; 2022. DOI: 10.21203/rs.3.rs-2327366/v1.
- 2. Zhou, C., Bian, Y., **Zhang, S.**, Zhang, Z., Wang, Y., & Liu, Y. J. (2023). Exploring user experience and performance of a tedious task through human-agent relationship. *Scientific Reports*, 13(1), 2995-2995. DOI: https://doi.org/10.1038/s41598-023-29874-5
- 3. Shu, Y., Yang, P., Liu, N., **Zhang, S.**, Zhao, G., and Liu, Y. J. (2022). Emotion Distribution Learning Based on Peripheral Physiological Signals. *IEEE Transactions on Affective Computing*, 1: 1-1. DOI: 10.1109/TAFFC.2022.3163609.
- 4. **Zhang, S.**, Liu, X., Yang, X., Shu, Y., Liu, N., Zhang, D. and Liu, Y. J. (2021). The influence of key facial features on recognition of emotion in cartoon faces. *Frontiers in Psychology*, 12: 687974. DOI: 10.3389/fpsyg.2021.687974.
- Zhang, S., Zhou, Y., Ge, L., Zeng, L., Liu, Z., Qian, W., Yang, J, Zhou, X., Wei, G. X., and Zhang, X. Y. (2021). Insomnia and somatization are predictors of post-traumatic stress disorder in pregnant women during the COVID-19 Pandemic. Neuropsychiatric Disease and Treatment, 2021. 17: 2539. DOI: 10.2147/NDT.S310300.
- Zhang, S., Zou, L., Chen, L. Z., Yao, Y., Loprinzi, S., Wei, G. X. (2019). The effect of Tai Chi Chuan on negative emotions in non-clinical populations: A meta-analysis and systematic review. *International Journal of Environmental Research and Public Health*, 16. PMID 31438638. DOI: 10.3390/ijerph16173033

- 7. Wei, G. X., Man, X. X., Ge, L. K., Yao, Y., Hu, Z. E., **Zhang, S.**, ... Zuo, X. N. (2021). Human empathy in the field of cognitive neuroscience: Perspectives and implications. Science China: Life Sciences, 51(06): 702-716. DOI: 10.1360/SSV-2020-0258
- 8. Wei, G. X., Si, R., Li, Y., Yao, Y., Chen, L., **Zhang, S.**, ... & Perrey, S. (2020). "No pain no gain": evidence from a parcel-wise brain morphometry study on the volitional quality of elite athletes. *Brain Sciences*, 10(7), 459. DOI: 10.3390/brainsci10070459
- 9. Chen, L. Z., Yuan, X., Zhang, Y., **Zhang, S.**, Zou, L., Yang, L., ... & Wei, G. X. (2020). Brain functional specialization is enhanced among Tai Chi Chuan practitioners. *Archives of Physical Medicine and Rehabilitation*, 2020. 101(7). DOI: 10.1016/j.apmr.2020.02.005
- Li, L., Zhang, S., Cui, J., Chen, L. Z., Wang, X., Fan, M., & Wei, G. X. (2019). Fitness-Dependent effect of acute aerobic exercise on executive function. Frontiers in Physiology, 10, 902. DOI: 10.3389/fphys.2019.00902

ACADEMIC TALKS

- The 11th National Academic Conference of Sports Psychology, Beijing Sport University, 22/8/2018
 Topic: Correlation between physical activity and cerebral cortex thickness in 125 Chinese adolescents
- Collaborative Innovation Center of Assessment toward Basic Education Quality, Beijing Normal University
 Topic: Fitness-dependent effect of acute aerobic exercise on executive function

WORKSHOP AND TRAINING

Workshop:

• Brain Hack (Beijing & Nanning): Research reliability

- 12/12/2020-18/12/2020
- Brain Hack (Beijing): Imaging developing brain-mind association in vivo 13/4/2018-14/4/2018

Training:

• The 4th advanced EEG data analysis in Beijing

19/7/2021-25/7/2021

LANGUAGE SKILLS

Mandarin (first language), English (proficient)

INTERSHIPS AND ACADEMIC SERVICES

Engineer of brain and cognitive science: Internship in Tomorrow Advancing Life (NYSE: TAL)

5/2020-7/2020

- Project 1: Reasoning ability training for children
- Project 2: Attention training for children

Engaged in design of training program in children's reasoning/attention ability, edit and revise questions of children's reasoning ability test, map the attention network of brain

School Psychologist: Internship in Xingji-River Middle School of Jinan 5/2015-6/2015 Group psychological counseling and individual psychological counseling for students

REFERENCES

Dr. Yongjin Liu Professor Department of Computer Science and Technology Tsinghua University liuyongjin@tsinghua.edu.cn

Dr. Guozhen Zhao Associate professor Institute of Psychology Chinese Academy of Sciences zhaogz@psych.ac.cn Dr. Dan Zhang Associate professor Department of psychology Tsinghua University dzhang@tsinghua.edu.cn