

Haiyan Wu (伍海燕)



Associate Professor
University of Chinese Academy of Sciences
CAS Key Laboratory of Behavioral Science

Gender: Female
Tel: +86 18310810064
e-mail: wuhy@psych.ac.cn

Academic Positions

-
- 2017.03 – now Institute of Psychology, Chinese Academy of Sciences
Associate Professor Department of Psychology, University of Chinese Academy of Sciences, Beijing
- 2017.10 – 2019.01 California Institute of Technology, Pasadena, US
Visiting Associate Humanities and Social Sciences
- 2013.07 – 2017.02 Institute of Psychology, Chinese Academy of Sciences
Assistant Professor Department of Psychology, University of Chinese Academy of Sciences, Beijing

Education

-
- 2010-2013 Beijing Normal University, Beijing, China
PhD study in Psychology and Neuroscience
Doctoral thesis: The Neural Mechanism of Kinship and the Effect of Culture
- 2007-2010 Zhejiang Normal University, Jinhua, China
Master study in Developmental Psychology, School of Education
Master thesis: The RT- and ERP-based implicit concealed information test
- 2003-2007 Guangxi Normal University, Guilin, China
Undergraduate study in Preschool Education, School of Education
Undergraduate thesis: Investigation of unbalanced preschool education in Guilin

Research Grants as Principal Investigator

-
- 2018-2021 Project of “Neural mechanism of dishonesty in social interactions”
Supported by The National Natural Science Foundation of China (NSFC)
- 2016-2018 Project of “The oxytocin effect on social emotions and behaviors”
Supported by Scientific Foundation of CAS Key Laboratory of Behavioral Science
- 2014-now Project of “The neural mechanism of group identity effect on empathy”
Supported by The National Natural Science Foundation of China (NSFC)
- 2013-2015 Project of “The interpersonal relationship and social decision making”
Supported by Scientific Foundation of Institute of Psychology, Chinese Academy of Sciences
- 2012-2014 Project of “The cross-culture neural mechanism of kinship”
Supported by Fundamental Research Funds for the Central Universities (2012YBXS01)
- 2008-2010 Project of “The RT- and ERP-based implicit concealed information test”
Supported by the Innovation Project for Graduate students of Zhejiang Province (YK2008039)

Selected Journal Publications

-
- 1) Qi Y., Nan W., Cai H., **Wu H.***, Liu X* (2019). Empathy or schadenfreude? Social value orientation and affective responses to gambling results. *Personality and Individual Differences*.
 - 2) **Wu H.**, Feng C., Lu X., Liu X., Liu Q* (2019). Oxytocin effects on the resting-state mentalizing brain network. *Brain Imaging and Behavior*.

- 3) **Wu, H***, Fung, B. J., & Mobbs, D*. (2019, July 31). Mentalizing during social interaction: the development and validation of the interactive mentalizing questionnaire. <https://doi.org/10.31234/osf.io/g2zm8>
- 4) **Wu, H.**, Liu, X., Hagan, C. C*, & Mobbs, D *. (2019, August 5). Mentalizing During Social InterAction: A Four Component Model. <https://doi.org/10.31234/osf.io/ftgs3>
- 5) Liu, Q., **Wu, H***, & Liu, A*. (2019). Modeling and Interpreting Real-world Human Risk Decision Making with Inverse Reinforcement Learning. *arXiv preprint arXiv:05803*.
- 6) Zhu, R., Liu, C., Li, T., Xu, Z., Fung, B., Wang, L*, **Wu, H***, Luo, Y*, & Feng, C*. (2019). Intranasal oxytocin reduces reactive aggression in men but not in women: A computational approach. *Psychoneuroendocrinology*.
- 7) Wei S, Liu Q, Harrington M, Sun J, Yu H, Han J, Hao M, **Wu H***, and Liu X*. (2019) Nonconformist tendencies related to risky choices in female methamphetamine abstainers. *The American Journal of Drug and Alcohol Abuse*.
- 8) Feng C, Cao J, Li Y, **Wu H***, Mobbs D (2018) The pursuit of social acceptance: aberrant conformity in social anxiety disorder, *Social Cognitive and Affective Neuroscience*, Volume 13, Issue 8, 5, Pages 809–817
- 9) Qi Y., Raiha S., **Wu H***, Liu X*(2018). Social value orientation modulates context-based social comparison preference in outcome evaluation: An ERP study. *Neuropsychologia*
- 10) Xu, R., Yang, J., Feng, C. L., **Wu, H.**, Huang, R. W., Yang, Q. L., . . . Luo, Y. J. (2018). Time is nothing: emotional consistency of autobiographical memory and its neural basis. *Brain Imaging and Behavior*, 12(4), 1053-1066
- 11) Wei, S., Zheng, Y., Li, Q., Dai, W., Sun, J., **Wu, H.**, & Liu, X. (2018). Enhanced neural responses to monetary rewards in methamphetamine use disordered individuals compared to healthy controls. *Physiology & Behavior*, 195, 118-127.
- 12) Sai, L., **Wu, H.**, Hu, X., & Fu, G. (2018). Telling a truth to deceive: Examining executive control and reward-related processes underlying interpersonal deception. *Brain Cogn*, 125, 149-156.
- 13) Zhu, X., Zhang, H., Wu, L., Yang, S., **Wu, H.**, Luo, W., Gu, R. and Luo, Y.J., (2018). The influence of self-construals on the ERP response to the rewards for self and mother. *Cognitive, Affective, & Behavioral Neuroscience*, pp.1-9.
- 14) Parisi, G. I., Barros, P., Fu, D., Magg, S., **Wu, H.**, Liu, X., & Wermter, S. (2018). *A Neurobotic Experiment for Crossmodal Conflict Resolution in Complex Environments*. Paper presented at the 2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).
- 15) Liao, C., **Wu, H.**, Guan, Q., Luo, Y., & Cui, F. (2018). Predictability and probability modulate the neural responses to other's pain: An event-related potential investigation. *Biological Psychology*, 138, 11-18.
- 16) 戚艳艳, **伍海燕**, & 刘勋. (2017). 社会价值取向对亲社会行为的影响: 来自行为和神经影像学的证据. *科学通报*, 62(11), 1136-1144.
- 17) 刘勋, & **伍海燕**. (2017). 心理学与脑科学: 进展, 思考和展望. *科技导报*, 35(19), 12-13.
- 18) Cui, F., Wu, S., **Wu, H.**, Wang, C., Jiao, C., & Luo, Y. (2017). Altruistic and self-serving goals modulate behavioral and neural responses in deception. *Social cognitive and affective neuroscience*, 13(1), 63-71.
- 19) Zhao Q, Li H, Hu B, **Wu H**, Liu Q (2017). Abstinent heroin addicts tend to take risks: ERP and source localization. *Frontiers in Neuroscience* 11, 681
- 20) Cao J, Liu Q, Li Y, Yang J, Gu R, Liang J, Qi Y, **Wu H**, Liu X (2017). Cognitive behavioural therapy attenuates the enhanced early facial stimuli processing in social anxiety disorders: an ERP investigation. *Behavioral and Brain Functions* 13 (1), 12
- 21) **Wu, H.**, Tang, H., Ge, Y., Yang, S., Mai, X., Luo, Y. J., & Liu, C. (2017). Object words modulate the activity of the mirror neuron system during action imitation. *Brain and behavior*, 7(11).
- 22) Yang, G., Nan, W., Zheng, Y., **Wu, H.**, Li, Q., & Liu, X. (2017). Distinct cognitive control mechanisms as revealed by modality-specific conflict adaptation effects. *J Exp Psychol Hum Percept Perform*, 43(4), 807-818.
- 23) Xu, R., Yang, J., Feng, C., **Wu, H.**, Huang, R., Yang, Q. & Luo, Y. J. (2017). Time is nothing: emotional consistency of autobiographical memory and its neural basis. *Brain imaging and behavior*, 1-14.
- 24) Cheng, D., **Wu, H.**, Yuan, L., Xu, R., Chen, Q., & Zhou, X. (2017). Modality-Dependent or ModalityIndependent Processing in Mental Arithmetic: Evidence From Unimpaired Auditory Multiplication for a Patient With Left Frontotemporal Stroke. *Journal of the International Neuropsychological Society*, 23(8), 692-699.
- 25) He, W., Qi, A., Wang, Q., **Wu, H.**, Zhang, Z., Gu, R., & Luo, W. (2017). Abnormal Reward and Punishment Sensitivity Associated with Internet Addicts. *Computers in Human Behavior*.
- 26) FU, D., QI, Y., **WU, H.**, & LIU, X. (2017). Integrative neurocognitive mechanism of empathy and counterempathy. *Chinese Science Bulletin*.
- 27) Qi, Y., Gu, R., Cao, J., Bi, X., **Wu, H***, & Liu, X*. (2017). Response bias-related impairment of early subjective face discrimination in social anxiety disorders: An event-related potential study. *Journal of Anxiety Disorders*, 47, 1020.
- 28) QI, Y., **WU, H***, & LIU, X*. (2017). The influences of social value orientation on prosocial behaviors: The evidences from behavioral and neuroimaging studies. *Chinese Science Bulletin*, 62(11), 1136-1144.

- 29) Zhu, X., **Wu, H.**, Yang, S., & Gu, R. (2017). The influence of self-construal type on outcome evaluation: Evidence from event-related potentials. *International Journal of Psychophysiology*, 112, 64-69.
- 30) **Wu, H.**, Luo, Y., & Feng, C. (2016). Neural signatures of social conformity: A coordinate-based activation likelihood estimation meta-analysis of functional brain imaging studies. *Neuroscience & Biobehavioral Reviews*, 71, 101-111.
- 31) **Wu, H.**, Gui, D., Lin, W., Gu, R., Zhu, X., & Liu, X. (2016). The procrastinators want it now: behavioral and event-related potential evidence of the procrastination of intertemporal choices. *Brain and cognition*, 107, 16-23.
- 32) Li, Q., Tian, M., Taxer, J., Zheng, Y., **Wu, H.**, Sun, S., & Liu, X. (2016). Problematic internet users' discounting behaviors reflect an inability to delay gratification, not risk taking. *Cyberpsychology, Behavior, and Social Networking*, 19(3), 172-178.
- 33) Zhu, X., Wang, L., Yang, S., Gu, R., **Wu, H.**, & Luo, Y. (2016). The Motivational Hierarchy between the Personal Self and Close Others in the Chinese Brain: an ERP Study. *Frontiers in psychology*, 7.
- 34) **Wu, H.**, Luo, L., Dai, J., Yang, S., Wang, N., & Luo, Y. J. (2016). Event-Related Potential Responses to Beloved and Familiar Faces in Different Marriage Styles: Evidence from Mosuo Subjects. *Frontiers in psychology*, 7.
- 35) **Wu, H.**, Ge, Y., Tang, H., Luo, Y. J., Mai, X., & Liu, C. (2015). Language modulates brain activity underlying representation of kinship terms. *Scientific reports*, 5, 18473.
- 36) Zheng, Y., Li, Q., Wang, K., **Wu, H.**, & Liu, X. (2015). Contextual valence modulates the neural dynamics of risk processing. *Psychophysiology*, 52(7), 895-904.
- 37) Dai, J., Zhai, H., **Wu, H.**, Yang, S., Cacioppo, J. T., Cacioppo, S., & Luo, Y. J. (2014). Maternal face processing in Mosuo preschool children. *Biological psychology*, 99, 69-76.
- 38) **Wu, H.**, Chen, C., Cheng, D., Yang, S., Huang, R., Cacioppo, S., & Luo, Y. J. (2014). The mediation effect of menstrual phase on negative emotion processing: Evidence from N2. *Social neuroscience*, 9(3), 278-288.
- 39) **Wu, H.**, Mai, X., Tang, H., Ge, Y., Luo, Y. J., & Liu, C. (2013). Dissociable somatotopic representations of Chinese action verbs in the motor and premotor cortex. *Scientific Reports (Nature Publisher Group)*, 3, 2049.
- 40) **Wu, H.**, Yang, S., Sun, S., Liu, C., & Luo, Y. J. (2013). The male advantage in child facial resemblance detection: Behavioral and erp evidence. *Social neuroscience*, 8(6), 555-567.
- 41) Liu, C., Tardif, T., **Wu, H.**, Monk, C. S., Luo, Y. J., & Mai, X. (2013). The representation of category typicality in the frontal cortex and its cross-linguistic variations. *Brain and language*, 127(3), 415-427.
- 42) Chen, C., Liu, C., Huang, R., Cheng, D., **Wu, H.**, Xu, P., ... & Luo, Y. J. (2012). Suppression of aversive memories associates with changes in early and late stages of neurocognitive processing. *Neuropsychologia*, 50(12), 2839-2848.
- 43) Hu, X., **Wu, H.**, & Fu, G. (2011). Temporal course of executive control when lying about self-and otherreferential information: an ERP study. *Brain Research*, 1369, 149-157.
- 44) **Wu, H.**, Hu, X., & Fu, G. (2009). Does willingness affect the N2-P3 effect of deceptive and honest responses? *Neuroscience letters*, 467(2), 63-66.

Teaching

- 2014 - Now Introduction to Psychology

I teach in a four-lecture course at University of Chinese Academy of Sciences. It involves around 200 bachelor students at different departments.

Book Chapter

- Haiyan Wu. Lie Detection and Mind Reading. (2012) In Xiaowei Tang (Eds.) *Mind Reading*, Hangzhou: Zhejiang University Press (ISBN: 9787308100700)
- Haiyan Wu. Chapter author in (2019) Xiaolan Fu (Eds.) *Psychology of lying*, Beijing: CITIC Press (ISBN: 9787521711844)

Supervised Students

- Caltech SURF student
Nayla Abney (co-mentor with Dr. Dean Mobbs) on the Mturk study on human fear
- PhD student
Yanyan Qi (co-mentor with Dr. Xun Liu) on social value orientation and empathy
- M.Sc. students
Hao Yu (co-mentor with Dr. Xun Liu) on the empathy project

Siqi Cao (co-mentor with Dr. Xun Liu) on the pain signal project
Ziqi Zhang (co-mentor with Dr. Wenbo Luo) on the project of task difficulty and decision

- Research Assistant
Xinyi Xu on the mouse tracking project

Recent Talks

- 11.29.2019 CML Symposium on Crossmodal Learning in Human and Robots, University of Hamburg, Germany
<https://www.crossmodal-learning.org/news/2019-11-cml-symposium/symposium-agenda.pdf>
- 11.22.2019 Jinan University, Guangzhou
- 10.17.2019 Annual meeting of China Computer Federation (CFF), Soochow
- 04.07.2019 Talk at Liaoning Normal University, Dalian
- 03.19.2019 Talk at CAS Key Laboratory of Behavioral Science, Institute of Psychology, Beijing
- 03.13.2019 Invited talk at Hong Kong University
https://www.psychology.hku.hk/uploads/seminar/20190313_Dr_Haiyan_Wu.pdf
- 02.22.2019 Talk for Social and Decision Neuroscience Symposium, hosted by Chen Neuroscience Center at Caltech, Pasadena, California, USA
<http://www.hss.caltech.edu/news-and-events/master-calendar/84765>

Honors and Awards

- (2018) Supervision award: PhD student Yanyan Qi wins the Awards of CAS
(2017) Outstanding associate professor of Institute of Psychology, CAS
(2010) Outstanding graduate student of Zhejiang Normal University

Professional Activities

Professional services

- **Publication chair**, IEEE International Conference on Development and Learning (ICDL) 2020
- **Session chair of Social cognitive science, Chinese Society for cognitive science**
- **Fellow** of China Computer Federation (CFF)

Reviewers

- **Journals:** Neuroimage; Social Cognitive and Affective Neuroscience; Neuroimaging: clinical; Psychophysiology; Cognitive, Affective, & Behavioral Neuroscience; IEEE's Transactions on Affective Computing
- **Funding:** NSFC

Editorial

- Neuroscience Bulletin.

Recent conference attendee

- 11.27-11.29.2019 CML Symposium on Crossmodal Learning in Human and Robots, University of Hamburg, Germany
- 11.06-11.07. 2019 Cell Press-Beijing Conference on AI and the Brain, Beijing, China.

- 10.19-10.23. 2019 SFN Meeting 2019, 50th annual society for neuroscience's annual meeting, Chicago, USA
- 05.24-05.28. 2018 30th APS (Association for Psychological Science) Annual Convention, San Francisco, CA, USA
- 04.26-04.28. 2018 The 2018 Society for Affective Science meeting, UCLA, CA, USA

Media Activity

- 12.08.2019 Interviewed by QiangQiang Neuroscience Official Account(锵锵脑科学)
- 12.25.2018 Guest in Huajia TV (live at Qihu 360): served as psychologist and talked about stress, anxiety and depression