Xiaoqing Hu
Department of Psychology, The University of Hong Kong
Email: xiaoqinghu@hku.hk

Website
ORCID ResearchGate
OSF Google Scholar

PROFESSIONAL APPOINTMENT

2022-present Associate Professor,
Department of Psychology,
The University of Hong Kong, Hong Kong SAR, China

2016-2022 Assistant Professor,
Department of Psychology,
The University of Hong Kong, Hong Kong SAR, China

2014-2016 Post-Doctoral Fellow
Department of Psychology, The University of Texas at Austin, Texas, USA

EDUCATION

2009-2014 Ph.D. in Brain, Behavior, and Cognition
Department of Psychology, Northwestern University, Illinois, USA

2009-2011 M.S. in Brain, Behavior, and Cognition
Department of Psychology, Northwestern University, Illinois, USA

2006-2009 M.Ed. in Developmental Psychology,
Department of Psychology, Zhejiang Normal University, Zhejiang, China

2002-2006 B.S. in Psychology,
Department of Psychology, Zhejiang University, Zhejiang, China

HONORS, AWARDS AND FELLOWSHIPS

2025 Sino-British Fellowship
Visitorship to the University of Cambridge
The University of Hong Kong

2022 Outstanding Young Researcher Award
The University of Hong Kong

2022 Research Output Prize
The University of Hong Kong

2021 APS Rising Star Award
Association for Psychological Science (APS)

2013 APA Dissertation Research Award,
American Psychological Association (APA)

2012 Chinese Government Award for Outstanding Self-financed Students Abroad,
China Scholarship Council (CSC)

PUBLICATIONS

Bibliometrics

Total: >80 papers, (co)Corresponding/First-Authorship: >50 papers
Citations: >4,000, *h*-index: 29, *h*-10 index: 60, Source: Google Scholar, March 2026.

underline denotes trainees, # denotes co-first author(s), *denotes corresponding author(s).

Journal Articles

Guo, S., Chen, D., Hu W., & **Hu, X.*** (2026). Faster initial retrieval of misinformation corrections predicts better long-term memory: An ERP study. *Neuropsychologia, 225,* 109428, https://doi.org/10.1016/j.neuropsychologia.2026.109428

Xia, T.*, Hu, CP, Türker, B., Musat, E.M., Naccache, L., Arnulf, I., Oudiette, D.*, & **Hu. X.*** (2026) How sleeping minds decide: State-specific reconfigurations of lexical decision-making. *PLOS Computational Biology* 22(2): e1014007. https://doi.org/10.1371/journal.pcbi.1014007

Xia, T.* & **Hu, X.*** (2026). Memory editing during sleep: mechanisms, clinical applications, and technological innovations. *Trends in Cognitive Sciences,* doi: 10.1016/j.tics.2025.07.010

Yue, W., Liu, J., Yao, Z., Zhang, Y., Mu, Z., & **Hu, X.*** (2026). Retrospective duration judgments of naturalistic events depend on memories of event boundaries. *Psychonomic Bulletin & Review. 33,* 33. https://doi.org/10.3758/s13423-025-02833-z

Zheng, Y.#, Chen, D.#, **Hu, X.***, Hsiao, J*. (2026) The effect of mask use on cross-race face perception: a simultaneous EEG and eye-tracking study. *Cognitive Research: Principles and Implications*, 11, doi : 10.1186/s41235-026-00704-2

Guo, S., Chen, D., & **Hu, X.*** (2025). Providing an alternative explanation improves misinformation rejection and alters event-related potentials during veracity judgements. *Brain and Cognition.* https://doi.org/10.1016/j.bandc.2025.106290

Guo, S., Swire-Thompson, B., & **Hu, X.*** (2025). Specific media literacy tips decrease belief in AI-generated visual misinformation. *Cognitive Research: Principles and Implications*, 10, https://doi.org/10.1186/s41235-025-00648-z

Guo, S., Zhong, Y., & **Hu, X.*** (2025). People are more susceptible to misinformation with realistic AI-synthesized images that provide strong evidence to headlines. *Harvard Kennedy School Misinformation Review*. https://doi.org/10.37016/mr-2020-189

Hu, X.* & Zeng, S. (2025). How does the brain remember? Distinct pathways for voluntary and involuntary recall. *PLOS Biology,* https://doi.org/10.1371/journal.pbio.3003328

Liu, J.*, Chen, D., Xia, T., Zeng, S., Xue, G., & Hu, X.* (2025). Slow-wave sleep and REM sleep differentially contribute to memory representational transformation. *Communications Biology,* https://doi.org/10.1101/2024.08.05.606592

Mai, X., Song, B., Luo, M., Zhu, J., Jiang, X., Ma, X., Lin, F., **Hu, X.**, Peng, H.*, Zhang, L.*, & Wei, Y.* (2025). AISleep: Automated and interpretable sleep staging from single-channel EEG data. *Patterns*.

Ping, A. A., Guan, L. Z., Wang, Y., Yang, S., Yang, C., **Hu, X. Q.**, ... & Li, X. L*. (2025). A methodological guideline for consciousness assessment via neural electrophysiological activity. *Military Medical Research*, *12*(1), 90.

Xie, H., Liang, J, Luo, Y, Chen, W, **Hu, X.***, & Zhang, D.* (2025) Targeting the DLPFC to enhance memory control: Divergent effects on social and nonsocial memories. *Social Cognitive and Affective Neuroscience,* nsaf052, https://doi.org/10.1093/scan/nsaf052

Yao, Z., Tu, P., Wei, J., Zuo, X., & **Hu, X.*** (2025). Modulating positive self-referential processing by 40 Hz tACS in individuals with subthreshold depression: A double-blind, sham-controlled study. *Journal of Psychiatric Disorders,* https://doi.org/10.1016/j.jpsychires.2025.04.004

Yao, Z., Wei, J., Huang, G., Li, L., Liang, Z., Zhang, L., Wu, H., Yuan, T., Zhang, Z.*, & **Hu, X.*** (2025). Right frontal gamma transcranial alternating current stimulation modulates optimism biases. *Neuroscience Bulletin*, *41*, 172–176, https://doi.org/10.1007/s12264-024-01307-x

Zeng, S., Sit, H., Li, X., Bottary, R., Pace-Schott, E., Cunningham, T., Li, X.*, **Hu, X.*** (2025). Impaired emotional memory dissipation in insomnia disorder. *Psychological Medicine.* https://doi.org/10.1017/S0033291725101566

Zhao, H., Lin, X., Yuan, K., **Hu, X.**, Wang, X., Su, W., Wang, Q.*& Lu, L*. (2025) Updating social evaluation during sleep. *npj Science of Learning, 10,* 65. https://doi.org/10.1038/s41539-025-00356-9

Zheng, N., Zhang, X., Li, C., Cheung, F. T. W., **Hu, X.**, Zhang, J.*, & Feng, H*. (2025). Advances in artificial intelligence empowering early-stage human health: Current landscape and future directions. *The Innovation*, 101222.

Chen, D., Xia, T., Yao, Z., Zhang, L., & **Hu, X.*** (2024). Modulating social learning-induced evaluation updating during human sleep. *npj Science of Learning*, *9,* 43, https://doi.org/10.1038/s41539-024-00255-5

Chen, D., Yao, Z., Liu, J., Wu, H., & **Hu, X.*** (2024). Social conformity updates the neural representation of facial attractiveness. *Communications Biology, 7, 1369,* https://doi.org/10.1038/s42003-024-06791-5

Gu, Y., Shan, J., Huang, T., Yu, C., Wu, H., **Hu, X.**, ... & Zhao, D.* (2024). Exploring the interplay between addiction and time perception: A systematic review and meta-analysis. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 111104.

Lin, X., Chen, D., Liu, J., Yao, Z., Xie, H., Anderson, M.*, & **Hu, X.*** (2024). Observing the suppression of individual aversive memories from conscious awareness. *Cerebral Cortex, 34*(6), bhae080, https://doi.org/10.1093/cercor/bhae080

Varma, M. M. #, Zeng, S. #, Singh, L., Holmes, E. A., Huang, J., Chiu, M, H., & **Hu, X.*** (2024). A systematic review and meta-analysis of experimental methods for modulating intrusive memories from lab-analogue trauma exposure in non-clinical population. *Nature Human Behaviour, 8*(10), 1968–1987, https://doi.org/10.1038/s41562-024-01956-y

Xia, T., Chen, D., Zeng, S., Yao, Z., Liu, J., Qin, S., Paller, K.A., Torres-Platas, S. G., Antony, J.W., & **Hu, X.*** (2024) Aversive memories can be weakened during human sleep via the reactivation of positive interfering memories. *Proceedings of the National Academy of Sciences, 121*(31), e2400678121, https://doi.org/10.1073/pnas.2400678121

Yao, Z., Xia, T., Wei, J., Zhang, Z., Lin, X., Zhang, D., Qin, P., Ma, Y.*, & **Hu, X.*** (2024). Reactivating cued approached positive personality traits during sleep promotes positive self-referential processing. *iScience.27*(7), 110341. https://doi.org/10.1016/j.isci.2024.110341

Yi, W., Chen, W., Lan, B., Yan, L., **Hu, X.**, & Wu, J.* (2024). A U-shaped relationship between chronic academic stress and the dynamics of reward processing. *NeuroImage, 300*, 120849.

Zheng Q., Huang, Y., Mu, C., **Hu, X.***, & Lai, C. S.W.* (2024). Selective modulation of fear memory in non-rapid eye movement sleep. *Advanced Science,* https://doi.org/10.1002/advs.202400662

Liu, J., Xia, T., Chen, D., Yao, Z., Zhu, M., Antony, J. W., Lee, T.M.*, & **Hu, X.*** (2023). Item-specific neural representations during human sleep support long-term memory. *PLOS Biology, 21*(11): e3002399. doi:10.1371/journal.pbio.3002399

Schäfer, S., Lüder, C., Porcheret, K., **Hu, X.**, Margraf, J., Michael, T., ... Zeng, S., … & Sopp, R. (2023). To sleep or not to sleep, that is the question: A systematic review and meta-analysis on the effect of post-trauma sleep on intrusive memories of analog trauma. *Behaviour Research and Therapy*, 104359.

Shan, J., Gu, Y., Zhang, J., **Hu, X.**, Wu, H., Yuan, T., & Zhao, D.* (2023). A scoping review of physiological biomarkers in autism. *Frontiers in Neuroscience*, *17*: 1269880. doi: 10.3389/fnins.2023.1269880

Jin, R., Xia, T., Gawronski, B., & **Hu, X.*** (2023). Attitudinal effects of stimulus co-occurrence and stimulus relations: Sleep supports propositional learning via memory consolidation. *Social Psychological and Personality Science, 14*(1), 51-59. https://doi.org/10.1177/19485506211067673

Varma, M. M.#, Chen, D.#, Lin, X., Aknin, L. B., & **Hu, X.*** (2023). Prosocial behavior promotes positive emotion during the COVID-19 pandemic. *Emotion, 23*(2), 538-553. doi: 10.1037/emo0001077

Xia, T., Antony, J.W., Paller, K.A., & **Hu, X.*** (2023). Targeted memory reactivation during sleep influences social bias as a function of slow-oscillation phase and delta power. *Psychophysiology, 60*(5), e14224. https://doi.org/10.1111/psyp.14224

Xia, T., Yao, Z., Guo, X., Liu, J., Chen, D., Liu, Q.*, Paller, K.A., & **Hu, X.*** (2023). Updating memories of unwanted emotions during human sleep. *Current Biology, 33*(2), 309-320. https://doi.org/10.1016/j.cub.2022.12.004

Xie, H., Lin, X., Hu, W., & **Hu, X.*** (2023). Emotion regulation promotes forgetting of negative social feedback: Behavioral and EEG evidence. *Acta Psychologica Sinica 心理學報, 55*(6), 905-919. https://journal.psych.ac.cn/xlxb/CN/10.3724/SP.J.1041.2023.00905 [in Chinese]

Yu, D. J., Recchia, F., Bernal, J. D., Yu, A. P., Fong, D. Y., Li, S. X., Chan, R. N., **Hu, X.** & Siu, P. M. (2023). Effectiveness of exercise, Cognitive Behavioral Therapy, and pharmacotherapy on improving sleep in adults with chronic insomnia: a systematic review and network Meta-analysis of randomized controlled trials. *Healthcare*(11), 2207. https://doi.org/10.3390/healthcare11152207

Zhang, H., Zhou, Q. Q., Chen, H., **Hu, X. Q.**, Li, W. G., Bai, Y., ... & Li, X. L.* (2023). The applied principles of EEG analysis methods in neuroscience and clinical neurology. *Military Medical Research*, *10*(1), 67. https://doi.org/10.1186/s40779-023-00502-7

Geng, H., Chen, J.*, Hu, C., Jin, J., Chan, R., Li, Y., **Hu, X.,** Zhang, R.*, & Zhang, L. (2022). Promoting computation psychiatry in China. *Nature Human Behaivor*, *6*, 615-617. https://doi.org/10.1038/s41562-022-01328-4 (Comment)

Li, S.[#], Xie, H.[#], Zheng, Z., Chen, W., Xu, F., **Hu, X.,** & Zhang, D.[*] (2022). The causal role of the bilateral ventrolateral prefrontal cortices on emotion regulation of social feedback. *Human Brain Mapping, 43*(9)*,* 2898-2910. doi: 10.1002/hbm.25824

Ling, J.[#], Lin, X.[#], Li, X., Chan, N. Y., Zhang, J., Wing, Y. K., **Hu, X.**[*], Li, S. X.[*] (2022) Neural response to rewards in youths with insomnia. *SLEEP, 45*(2), https://doi.org/10.1093/sleep/zsab238

Varma, M. M., & **Hu, X.**[*] (2022) Prosocial behaviour reduces unwanted intrusions of experimental traumatic memories. *Behaviour Research and Therapy, 148,* 103998. https://doi.org/10.1016/j.brat.2021.103998

Xie, H., Mo, L., Li, S., Liang, J., **Hu, X.**[*], & Zhang, D.[*] (2022) Aberrant social feedback processing and its impact on memory, social evaluation, and decision making among individuals with depressive symptoms. *Journal of Affective Disorder, 300,* 366-376. https://doi.org/10.1016/j.jad.2022.01.020

Yu, A. P., Chin, E. C., Yu, D. J., Fong, D. Y., Cheng, C. P., **Hu, X.,** Gao, W., & Siu, P. M. [*] (2022). Tai Chi versus conventional exercise for improving cognitive function in older adults: a pilot randomized controlled trial. *Scientific Reports, 12*(1), 1-15. https://doi.org/10.1038/s41598-022-12526-5

Rigney, A.E., Schnyer, D.M., **Hu, X.,** & Beer, J. S.[*] (2021). Mechanisms of a spotless self-image: Navigating negative, self-relevant feedback. *Self and Identity, 20*(8), 1057-1076. https://doi.org/10.1080/15298868.2020.1806918

Zeng, S.[#], Lin, X.[#], Wang, J., & **Hu, X.**[*] (2021) Sleep's short-term memory preservation and long-term affect depotentiation effect in emotional memory consolidation: behavioral and EEG evidence. *SLEEP, 44*(11), zsab155, https://doi.org/10.1093/sleep/zsab155

Ling, J.[#], Lin, X.[#], Li, X., Chan, N. Y., Zhang, J., Wing, Y.K., **Hu, X.**[*]**,** & Li, S. X[*]. (2021) Altered brain activity related to inhibitory processing in youth with insomnia. *Journal of Sleep Research, 30*(6), https://doi.org/10.1111/jsr.13398

Zeng, S., Lau, E., Li, S. X., & **Hu, X.**[*] (2021). Sleep differentially impacts involuntary intrusion and voluntary recognition of lab-analogue traumatic memories. *Journal of Sleep Research, 30*(3), e13208. https://doi.org/10.1111/jsr.13208

Xie, H., **Hu, X.**, Mo, L., & Zhang, D.[*]. (2021) Forgetting positive social feedback is difficult: ERP evidence from a directed forgetting paradigm. *Psychophysiology, 58(5),* e13790. https://doi.org/10.1111/psyp.13790

Yao, Z., Lin, X., & **Hu, X.**[*] (2021) Optimistic amnesia: How online and offline processing shape belief updating and memory biases in immediate and long-term optimism biases. *Social Cognitive & Affective Neuroscience, 16*(5), 453-462. https://doi.org/10.1093/scan/nsab011

Dhammapeera, P., **Hu, X.,** & Bergstrom, Z. M.* (2020). Imagining a false alibi impairs concealed memory detection with the autobiographical implicit association test. *Journal of Experimental Psychology, Applied, 26(2),* 266–282. https://doi.org/10.1037/xap0000250

Hu, X.*, Cheng, L. Y., Chiu, M. H., & Paller, K.A. (2020). Promoting memory consolidation during sleep: A meta-analysis of targeted memory reactivation. *Psychological Bulletin, 146*(3), 218-244. https://doi.org/10.1037/bul0000223

Xie, H., Chen, Y., Lin, Y., **Hu, X.*,** & Zhang, D.* (2020). Can't Forget: Disruption of the right prefrontal cortex impairs voluntary forgetting in a recognition test, *Memory, 28,* 60-69, https://doi.org/10.1080/09658211.2019.1681456

Lucas, H.D.,*, Creery, J. D., **Hu, X.,** & Paller, K.A.* (2019) Grappling with implicit social bias: A perspective from memory research. *Neuroscience.* https://doi.org/10.1016/j.neuroscience.2019.01.037

Yuan, J., **Hu, X.*,** Chen, J., Bodenhausen, G.V., & Fu, S.* (2019). One of us? How facial and symbolic cues to own- versus other-race membership influence access to perceptual awareness. *Cognition 184,* 19-27. https://doi.org/10.1016/j.cognition.2018.12.003

Gawronski, B.*, Rydell, R. J., De Houwer, J., Brannon, S. M., Ye, Y., Vervliet, B., & **Hu, X.** (2018). Contextualized attitude change. *Advances in Experimental Social Psychology, 57.* 1-52. https://doi.org/10.1016/bs.aesp.2017.06.001

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 and Cognition*, *125*, 149-156. https://doi.org/10.1016/j.bandc.2018.06.009

Hu, X.*, Bergström, Z.M., Gagnepain, P., & Anderson, M.C. (2017). Suppressing unwanted memories reduces their unintended influences. *Current Directions in Psychological Science, 26,* 197-206. doi: 10.1177/0963721417689881

Hu, X.*, Gawronski, B., & Balas, R. (2017). Propositional versus dual-process accounts of evaluative conditioning: I. The effects of co-occurrence and relational information on implicit and explicit evaluations. *Personality and Social Psychology Bulletin, 43,* 17-32. doi: 10.1177/0146167216673351

Hu, X.*, Gawronski, B., & Balas, R. (2017). Propositional versus dual-process accounts of evaluative conditioning: II. The effectiveness of counter-conditioning and counter-instructions in changing implicit and explicit evaluations. *Social Psychological and Personality Science, 8.* 858-866. doi:10.1177/1948550617691094

Yuan, J.#, **Hu, X.#**, Lu, Y., Bodenhausen, G. V., & Fu, S.* (2017). Invisible own- and other-race faces presented under continuous flash suppression produce affective response biases. *Consciousness and Cognition, 48,* 273-282. http://dx.doi.org/10.1016/j.concog.2016.12.012

Gawronski, B.[*], Balas, R., & **Hu, X.** (2016). What do I know about it versus how do I feel about it? A theoretical analysis of response processes in evaluative conditioning. *Social Cognition, 34,* 357-381. doi: 10.1521/soco.2016.34.5.357

Lai, C. K.[*], Skinner, A. L., Cooley, E., Murrar, S., Brauer, M., Devos, T., Calanchini, J., Xiao, Y. J., Pedram, C., Marshburn, C. K., Simon, S., Blanchar, J. C., Joy-Gaba, J. A., Conway, J., Redford, L., Klein, R. A., Roussos, G., Schellhaas, F. M. H., Burns, M., **Hu, X.,** McLean, M. C., Axt, J. R., Asgari, S., Schmidt, K., Rubinstein, R., Marini, M., Rubichi, S., Shin, J. L., & Nosek, B. A. (2016). Reducing implicit racial preferences: II. Intervention effectiveness across time. *Journal of Experimental Psychology: General, 145,* 1001-1016. http://dx.doi.org/10.1037/xge0000179

Sai, L., Lin, X., Rosenfeld, J. P., Sang, B., **Hu, X.**[*], & Fu, G.[*] (2016). A novel, ERP-based concealed information test: Combining recognition- and feedback-evoked ERPs. *Biological Psychology, 114*, 13-22. doi:10.1016/j.biopsycho.2015.11.011.

Hu, X., Antony, J. W., Creery, J. D., Vargas, I. M., Bodenhausen, G. V., & Paller, K. A.[*] (2015). Unlearning implicit social biases during sleep. *Science, 348,* 1013-1015. doi: 10.1126/science.aaa3841.

Hu, X.[*], Bergström, Z. M., Bodenhausen, G. V., & Rosenfeld, J. P. (2015). Suppressing unwanted autobiographical memories reduces their automatic influences: Evidence from electrophysiology and an implicit autobiographical memory test. *Psychological Science, 26,* 1098-1106. doi: 10.1177/0956797615575734.

Hu, X.[*#], Pornpattananangkul, N.[#], & Nusslock, R. (2015). Executive control- and reward-related neural processes associated with the opportunity to engage in voluntary dishonest moral decision making. *Cognitive Affective & Behavioral Neuroscience, 15*, 475-491. doi: 10.3758/s13415-015-0336-9.

Gawronski, B., **Hu, X.**, Rydell, R. J., Vervliet, B., & De Houwer, J. (2015). Generalization and contextualization in automatic evaluation revisited: A meta-analysis of successful and failed replications. *Journal of Experimental Psychology: General, 144,* e50-e64. http://dx.doi.org/10.1037/xge0000079.

Pornpattananangkul, N.[*#], **Hu, X.**[#], & Nusslock, R. (2015). Threat/reward-sensitivity and hypomanic-personality modulate cognitive-control and attentional neural processes to emotional stimuli. *Social Cognitive & Affective Neuroscience, 10.* 1525-1536. doi:10.1093/scan/nsv042.

Hu, C.[*], Huang, K., **Hu, X.,** Liu, Y., Yuan, F., Wang, Q., & Fu, G.[*] (2015). Measuring the cognitive resources consumed per second for real-time lie-production and recollection: a dual-tasking paradigm. *Frontiers in Psychology*. doi: 10.3389/fpsyg.2015.00596.

Wang, Q., Chen, G., Hu, C., **Hu, X.**[*], & Fu, G.[*] (2014). Implicit racial attitudes influence perceived emotional intensity on other-race faces. *PLOS ONE, 9, e105946.* doi:10.1371/journal.pone.0105946.

Sai, L., Lin, X., **Hu, X.**[*], & Fu, G.[*] (2014). Detecting concealed information using feedback related event-related brain potentials. *Brain and Cognition, 90, 142-150.* doi:10.1016/j.bandc.2014.06.012.

Dietrich, A. B., **Hu, X.,** & Rosenfeld, J. P.[*] (2014). The effects of sweep numbers per average and protocol type on the accuracy of the P300-based concealed information test. *Applied Psychophysiology and Biofeedback, 39, 67-73.* doi: 10.1007/s10484-014-9244-y.

Rosenfeld, J. P.[*], **Hu, X.,** Labkovsky, E., Meixner, J., & Winograd, M.R. (2013). Review of recent studies and issues regarding the P300-based complex trial protocol for detection of concealed information. *International Journal of Psychophysiology, 90,* 118-134. doi: 10.1016/j.ijpsycho.2013.08.012.

Hu, X.[*]**,** Pornpattananangkul, N., & Rosenfeld, J.P. (2013). N200 and P300 as orthogonal and integrable indicators of distinct awareness and recognition processes in memory detection. *Psychophysiology, 50,* 454-464. doi: 10.1111/psyp.12018.

Wu, H., Tang, P., Huang, X., **Hu, X.,** & Luo, Y.[*] (2013). Differentiating electrophysiological response to decrease and increase negative emotion regulation. *Chinese Science Bulletin, 58*, 1543-1550. https://doi.org/10.1007/s11434-013-5746-x

Hu, X.[*]**,** Evans, A., Wu, H., Lee, K., & Fu, G.[*] (2013). An interfering dot-probe task facilitates the detection of mock crime memory in a reaction time (RT)-based concealed information test. *Acta Psychologica*, *142*, 278-285. http://dx.doi.org/10.1016/j.actpsy.2012.12.006.

Hu, X., Chen, H., & Fu, G.[*] (2012). A repeated lie becomes a truth? The effect of intentional control and training on deception. *Frontiers in Psychology, 3, 488*. https://doi.org/10.3389/fpsyg.2012.00488

Rosenfeld, J.P.[*], **Hu, X.**[*]**,** & Pederson, K. (2012). Deception awareness improves P300-based deception detection in concealed information tests. *International Journal of Psychophysiology, 86,* 114-121. https://doi.org/10.1016/j.ijpsycho.2012.06.007

Hu, X.[*], Rosenfeld, J. P., & Bodenhausen, G. V. (2012). Combating automatic autobiographical associations: The effect of instruction and training in strategically concealing information in the autobiographical implicit association test. *Psychological Science, 23,* 1079-1085. https://doi.org/10.1177/0956797612443834

Hu, X.[*]**,** & Rosenfeld, J. P. (2012). Combining the P300-complex trial-based concealed information test and the reaction time-based autobiographical implicit association test in concealed memory detection. *Psychophysiology, 49,* 1090-1100. https://doi.org/10.1111/j.1469-8986.2012.01389.x

Hu, X.[*], Hegeman, D., Landry, E., & Rosenfeld, J. P. (2012). Increasing the number of irrelevant stimuli increases ability to detect countermeasures to the P300-based complex trial protocol for concealed information detection. *Psychophysiology, 49,* 85-95. https://doi.org/10.1111/j.1469-8986.2011.01286.x

Hu, X., Wu, H., & Fu, G*. (2011). Temporal course of executive control when lying to self- and other-referential information: An ERP study. *Brain Research, 1369,* 149-157. https://doi.org/10.1016/j.brainres.2010.10.106

Wu, H., **Hu, X.**, & Fu, G.* (2009). Does willingness affect the N2-P3 effect of deceptive and honest responses? *Neuroscience Letter, 467,* 63-66. https://doi.org/10.1016/j.neulet.2009.10.002

Hu, X., Fu, G., & Shi, Z. (2009). Mirror neuron system (MNS): Retrospect and prospect. *Advances in Psychological Science, 17,* 118-125. [in Chinese]

Hu, X., & Fu, G. (2009). Event-related potentials in deception detection: A review. *Chinese Journal of Clinical Psychology, 17,* 194-196. [in Chinese]

Zhang, X., Xie, M., **Hu, X.**, Ge, S., & Zheng, Q. (2006). Computer game addiction of the undergraduates and its influential factors. *Chinese Journal of Clinical Psychology*, *14,* 150-152. [in Chinese]

Chaired Symposiums

Hu, X. & Schetchman, E. (2025, September). How sleep shapes memory dynamics from the lens of reactivation: New insights and Future directions. Symposium at The World Sleep 2025 Congress. Singapore.

Hu, X. (2025, September). Therapeutic innovations for sleep disorders: From mechanistic breakthroughs to clinical translations. Symposium at the Annual Meeting of Asian Society of Sleep Medicine, Singapore.

Hu, X. & Payne, J. (2025, March). Healing While Sleeping? How sleep shapes our emotional experiences. Symposium at The 32nd Annual Meeting of Cognitive Neuroscience Society, Boston, MA. USA.

Conference/Symposium Talks

Hu, X. (2025, November). *Memory regulation across Sleep-Wake cycles.* **Keynote Talk** at the 26th National Academic Conference of Psychology, Jinan, China.

Hu, X. (2025, September). *Memory editing during sleep: Mechanisms, clinical implications and technological innovations*. Symposium Talk at the The World Sleep 2025 Congress. Singapore.

Hu, X. (2025, August). *Memory editing during sleep: Mechanisms, clinical implications and technological innovations*. Symposium Talk at the 3rd China-Japan-Korea Neuroscience conference, Incheon, South Korea.

Hu, X. (2025, May). *Memory editing during sleep*. Conference Talk at the REPLAY conference, Cardiff, UK.

Hu, X. (2025, March). *Memory editing during sleep*. Symposium Talk at the 32nd Annual Meeting of Cognitive Neuroscience Society, Boston, MA. USA.

Zuo, X., Lin, X., Yue, Y., Li, X., & **Hu, X.** (2024, September). *Compromised active forgetting in individuals with insomnia: Behavioural and EEG evidence.* Oral presentation at Sleep Europe 2024 (ESRS2024), Seville, Spain.

Hu, X. (2024, September). *Memory editing during human sleep*. Symposium Talk at the 16th Annual Meeting of Chinese Sleep Research Society, Wuhan, China.

Hu, X. (2024, September). *Memory editing during human sleep*. Symposium Talk at the 2024 International Conference of Physiological Sciences (ICPS2024), Qingdao, China.

Zeng, S., Sit, H-F., Bottary, R., Cunningham, T., Schott, E., Li, X. S., & **Hu, X.** (2024, June). *The temporal dynamics of emotional memory and reactivity in patients with insomnia disorder.* Oral presentation at 2024 SLEEP, Houston, TX, USA.

Liu, J., & **Hu, X.** (2023, April). *Sequentially reactivated memory representations during sleep support long-term associative memory.* Oral presentation at 2023 International Conference on Learning and Memory (LEARNMEM2023), Huntington Beach, CA, USA.

Xia, T., Yao, Z., Guo, X., Liu, J., Chen, D., Liu, Q., & **Hu, X**. (2022, November). *Affect updating of unwanted memories during human NREM sleep.* Oral presentation (Nano Symposium) at Neuroscience 2022, Annual Meeting of Society for Neuroscience, San Diego, CA, USA.

Hu, X. (2022, September). *Targeted memory reactivation during sleep: mechanisms and applications*. Symposium Talk at the 14th Annual Meeting of the Chinese Sleep Research Society, Chengdu, China. Virtual.

Hu, X. (2021, November). *Controlling unwanted memories*. Conference Talk at NSFC-RCG Young Scholar Forum. Hong Kong SAR, China.

Hu, X. (2021, November). *Intervention of emotion memory, sleep and psychiatric disorders*. Symposium Talk at the International Symposium on New Advances in Psychiatry, Beijing, China. Virtual

Hu, X., & Lin, X. (2021, September). *Neurocognitive mechanism of emotional memory suppression.* Symposium Talk at the 20th World Congress of Psychophysiology, Chengdu, China. Virtual

Hu, X. (2021, May). *The impact of sleep vs. sleep deprivation on emotional memories.* Symposium Talk at the 3rd Congress of Asia Society of Sleep Medicine, Beijing, China. Virtual

Ling, J. Cheung, T.M.F., Sun, W., Yang, X., Wei, J., **Hu, X.,** & Li, X. (2019, September) *The role of REM sleep in the formation of emotional false memory – An experimental study using Deese-Roediger-McDermontt (DRM) paradigm*. World Sleep 2019 Congress, Vancouver, Canada.

Hu, X., Cheng, L., Chiu, M., & Paller, K. A. (2019, September). *Targeted memory reactivation: A meta-analysis*. The International Sleep Replay Workshop, Evanston, IL. USA.

Hu, X., Cheng, L., Paller, K. A. (2018, March). *Biasing memory replay during sleep: A quantitative synthesis of Targeted Memory Reactivation effects*. The 25th Annual Meeting of Cognitive Neuroscience Society, Boston, MA. USA.

Hu, X. (2017, November). *Cognitive and motivational processes in deception*. The First Southeast Asia Regional Conference of Psychology, Hanoi, Vietnam.

Gawronski, B., **Hu, X.,** Rydell, R. J., Vervliet, B., & De Houwer, J. (2017, July). *Contextualized change of automatic evaluations: What we learned from our own file drawer.* The 18th General Meeting of the European Association of Social Psychology, Granada, Spain.

Rigney, A.E., Schnyer, D.M., **Hu, X.,** & Beer, J.S. (2017, January). *What you don't remember can hurt you: Unwanted and "forgotten" self-relevant memories elicit distinct ERP memory trace.* The 18th Annual Meeting of the Society for Personality and Social Psychology, San Antonio, TX, USA.

Hu, X., Gawronski., & Balas, R. (2016, July). *The effectiveness of counterconditioning and instructions in changing implicit and explicit evaluations.* The European Association of Social Psychology, Cologne, Germany.

Bergström, Z. M., & **Hu, X.** (2016, July). *Retrieval control strategies for evading forensic memory detection*. The 6th International Conference on Memory, Budapest, Hungary.

Hu, X., Gawronski, B., & Balas, R. (2016, June). *Associative and propositional processes in the formation and change of implicit and explicit evaluations.* The 42nd Society for Philosophy and Psychology, Austin, TX, USA.

Hu, X., Antony, J. W., Creery, J. D., Vargas, I. M., Bodenhausen, G. V., & Paller, K. A. (2016, May). *Reactivating counter-bias training during slow-wave sleep reduces implicit social biases*. The 28th Annual Convention of Association for Psychological Science, Chicago, IL, USA.

Hu, X., Gawronski, B., & Balas, R. (2015, June). *Associative and propositional processes in evaluative conditioning: Effects of relational information and reinforcement*. The Small Group Meeting on Associative and Propositional Learning, Warsaw, Poland.

Hu, X., Bergström, Z. M., Bodenhausen, G. V., & Rosenfeld, J. P. (2015, May). *Suppressing unwanted autobiographical memories reduces their automatic influences: Evidence from*

electrophysiology and an implicit autobiographical memory test. The 27th Annual Convention of Association for Psychological Science, New York, NY, USA.

Hu, X., Antony, J. W., Creery, J. D., Vargas, I. M., Bodenhausen, G. V., & Paller, K. A. (2015, February). *Unlearning implicit social biases during sleep*. The Social Cognition Preconference at the 16th Annual Meeting of the Society for Personality and Social Psychology, Long Beach, CA, USA.

Hu, X., & Bodenhausen, G. V. (2014, May). *The effect of counter-prejudice training in implicit prejudice regulation*. Annual Meeting of the Midwestern Psychological Association, Chicago, IL, USA.

Nusslock, R., Young, C. B., Pornpattananangkul, N., **Hu, X.,** Parrish, T., & Reynolds, E. (2013, May). *Abnormalities in reward-related brain activity in subsyndromal bipolar disorder*. The 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, USA.

Rosenfeld, J. P. **Hu, X.,** & Labkovsky, E. (2012, September). *Enhancements to the P300 complex trial concealed information test protocol*. The 16th World Congress of Psychophysiology, Pisa, Italy.

Hu, X., Fu, G., Zhu, Y., Du, Y., & Ye, X. (2007, November). *Separating recognition and decision to lie: An updated paradigm in detecting concealed autobiographical information using event-related potentials.* The 11th National Academic Congress of Psychology, Kaifeng, China.

Conference Posters

Di, T., Li, J., Gao, C., & **Hu, X**. (2026, March). *Sequence-level emotional context reactivation during sleep: driving positive memory learning across wakefulness and REM stages*. Poster presented at The 33rd Annual Meeting of Cognitive Neuroscience Society, Vancouver, BC, Canada.

Li, J., Di, T., & **Hu, X**. (2026, March). *Deciphering how respiration-brainwave coupling in human REM sleep supports emotional memory learning*. Poster presented at The 33rd Annual Meeting of Cognitive Neuroscience Society, Vancouver, BC, Canada.

Zuo, X., Xiao, Y., Liu, K., Sit, H., Li, S., & **Hu, X**. (2026, March). *Memory suppression training improves sleep qualities and mental health outcomes.* Poster presented at The 33rd Annual Meeting of Cognitive Neuroscience Society, Vancouver, BC, Canada.

Mu, S., Zeng, S., Chen, D., & **Hu, X.** (2026, March). *Distinct neural dynamics in emotional memory encoding between insomnia and healthy sleepers.* Poster presented at The 33rd Annual Meeting of Cognitive Neuroscience Society, Vancouver, BC, Canada.

Chen, D., Xia, T., & **Hu, X.** (2025, March). *The impact of targeted memory reactivation on counter-attitudinal learning.* Poster presented at The 32nd Annual Meeting of Cognitive Neuroscience Society, Boston, MA. USA.

Mu, Z., Liu, J., & **Hu, X.** (2025, March). *Event boundary-elicited neural activities correlate with recent and remote memory.* Poster presented at The 32nd Annual Meeting of Cognitive Neuroscience Society, Boston, MA. USA.

Yue, Y., Liu, J., & **Hu, X.** (2025, March). *How changes in mental replay speed impact retrospective duration judgments.* Poster presented at The 32nd Annual Meeting of Cognitive Neuroscience Society, Boston, MA. USA.

Chen, D., Xia, T., & **Hu, X.** (2024, September). *Modifying Evaluative Decision-Making During Human Sleep*. Poster presented at Sleep Europe 2024, Seville, Spain

Liu, J., & Hu, X. (2024, September). *Memory representational transformation during human overnight sleep*. Poster presented at Sleep Europe 2024, Seville, Spain

Jin, X., Zuo, X., Xia, T., & **Hu, X.** (2024, September). *Modulating Sleep Spindle via Closed-Loop Auditory Stimulation*. Poster presented at Sleep Europe 2024, Seville, Spain

Tsang, Y. C., Xia, T., & **Hu, X.** (2024, September). *The Temporal Proximity Effect of Sleep on Emotional Interference*. Poster presented at Sleep Europe 2024, Seville, Spain

Zhang, Y., & Hu, X. (2024, September). *Unveiling the role of sleep in the processing of trauma-analogue memories*. Poster presented at Sleep Europe 2024, Seville, Spain

Zuo, X., Lin, X., Yue, Y., Li, X., & **Hu, X.** (2024, September). *Compromised active forgetting in individuals with insomnia: Behavioural and EEG evidence.* Poster presented at Sleep Europe 2024, Seville, Spain

Chen, D., Yao, Z., & **Hu, X.** (2023, April). *N400 during social norms learning predicts delayed social conformity.* Poster presented at 2023 International Conference on Learning and Memory, Huntington Beach, CA, USA.

Xia, T., Chen, D., Zeng, S., & **Hu, X.** (2023, April). *Reactivating competing emotional memories during sleep differentially modulates consolidated unwanted memories and their affect responses* Poster presented at 2023 International Conference on Learning and Memory, Huntington Beach, CA, USA.

Yao, Z., Xia, T., Lin, X., & **Hu, X.** (2023, April). *Reactivating positive personality traits during sleep impacts self-evaluative memories.* Poster presented at 2023 International Conference on Learning and Memory, Huntington Beach, CA, USA.

Yue, W. W. Y. & **Hu, X.** (2023, April). *Would we lose our memory of event duration when we have forgotten the event content?* Poster presented at 2023 International Conference on Learning and Memory, Huntington Beach, CA, USA.

Zhang, L., Xia, T., & **Hu, X.** (2023, April). *Endogenous and exogenous memory reactivation in human sleep.* Poster presented at 2023 International Conference on Learning and Memory, Huntington Beach, CA, USA.

Jin, R., Xia, T., Gawronski, B., & **Hu, X.** (2023, February). *Attitudinal effects of stimulus co-occurrence and stimulus relations: Sleep supports propositional learning via memory consolidation.* Poster accepted at the 2023 Annual Convention of the Society for Personality and Social Psychology, Atlanta, Georgia.

Chen, D., Yao, Z., & Hu, X. (2022, Nov). *N400 during social norms learning predicts delayed social conformity.* Poster presented at Neuroscience 2022, Annual Meeting of Society for Neuroscience, San Diego, CA, USA.

Liu, J., & Hu, X. (2022, Nov). *Pre-sleep testing weakens the targeted memory reactivation beneficial effect.* Poster presented at Neuroscience 2022, Annual Meeting of Society for Neuroscience, San Diego, CA, USA.

Xie, H., Lin, X., & **Hu, X.** (2022, Nov). *Can emotion regulation facilitate subsequent control of unwanted memories?* Poster presented at Neuroscience 2022, Annual Meeting of Society for Neuroscience, San Diego, CA, USA.

Zeng, S., Sit, H., Li, S. & **Hu, X.** (2022, Nov). *Examining emotional memory processing among insomnia patients*. Poster presented at Neuroscience 2022, Annual Meeting of Society for Neuroscience, San Diego, CA, USA.

Yao, Z., Wei, J., Huang, G., Li, L., Liang, Z., Zhang, Z., & **Hu, X.** (2022, Nov). *Frontal gamma but not alpha frequency band transcranial alternating current stimulation (tACS) modulates immediate and delayed optimism biases*. Poster presented at Neuroscience 2022, Annual Meeting of Society for Neuroscience, San Diego, CA, USA.

Guo, S., Chen, D. & **Hu, X.** (2022, Oct). *The Role of Familiarity and Memory Recollection in Decreasing the Continued Influence Effect of Misinformation: An Electrophysiological Investigation*. Poster presented at Society for Psychophysiological Research, Vancouver, BC, Canada.

Chen, D., Yao, Z., & **Hu, X.** (2022, May) *Is conformity public compliance or implicit acceptance? Evidence from EEG representation similarity analyses.* Poster presented at the 2022 Annual Meeting of Social and Affective Neuroscience Society, Virtual.

Varma, M. M., & **Hu, X.** (2021, February). *Prosocial behavior reduces unwanted intrusions of experimental traumatic memories.* Poster presented at the 2021 Annual Convention of Association for Psychological Science, Virtual.

Chen, D., Varma, M. M., Lin, X., Aknin, L.B., & **Hu, X.** (2021, February). *Prosocial behavior enhances positive affect during COVID-19.* Poster presented at the 2021 Society for Personality and Social Psychology Virtual Annual Convention, Online.

Varma, M. M., & **Hu, X.** (2021, February). *Prosocial behavior reduces unwanted intrusions of experimental traumatic memories.* Poster presented at the 2021 Society for Personality and Social Psychology Virtual Annual Convention, Online.

Jin, R., & **Hu, X.** (2020, February). *Training reduces implicit gender stereotype over 12 hours and 3 days, and sleep on it helps.* Poster presented at the 21st Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA. USA.

Yao, Z., & **Hu, X**. (2020, February). *Judgment and memory biases in valence dependent belief updating.* Poster presented at the 21st Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA. USA.

Xia, T., & **Hu, X.** (2019, June). *Theta and spindle oscillations are associated with social bias reduction during sleep.* Poster presented at the 2019 Annual meeting of Organization for Human Brain Mapping, Rome, Italy.

Yao, Z., & **Hu, X**. (2019, March). *Electrophysiological activity underlying optimism biases during belief updating*. Poster presented at the 26th Annual Meeting of Cognitive Neuroscience Society, San Francisco, CA. USA.

Lin, X., Yao, Z., & **Hu, X.** (2019, March) *Unravelling neurocognitive processes underlying the suppression of unwanted emotional memories.* Poster presented at the 26th Annual Meeting of Cognitive Neuroscience Society, San Francisco, CA. USA.

Zeng, S., Lin, X., & **Hu, X.** (2019, March) *Examining immediate and long-term effects of sleep vs. sleep deprivation on emotional memory: Behavioral and electrophysiological evidence.* Poster presented at the 26th Annual Meeting of Cognitive Neuroscience Society, San Francisco, CA. USA.

Hu, X., Cheng, L., & Paller, K.A. (2018, March). *Biasing memory replay during sleep: A quantitative synthesis of targeted memory reactivation effects*. Poster presented at the 25th Annual Meeting of Cognitive Neuroscience Society, Boston, MA. USA.

Fang, X., Rigney, A.E., & **Hu, X.** (2018, March). *Unraveling the temporal dynamics of self-enhancing memories.* Poster presented at the 19th Annual Meeting of the Society for Personality and Social Psychology, Atlanta, GA. USA.

Cheng, S., Fang, X., & **Hu, X.** (2018, March). *The effect of retrieval-induced forgetting in regulating distressful thoughts*. Poster presented at the 19th Annual Meeting of the Society for Personality and Social Psychology, Atlanta, GA. USA.

Sai, L., Wu, H., **Hu, X.,** & Fu, G. (2017, October). *Neurocognitive mechanisms underlying interpersonal deception*. Poster presented at 57th Annual Meeting of Society for Psychophysiological Research, Vienna, Austria.

Zhu, X., Sun, W., Ling, J., **Hu, X.,** & Li, S.X. (2017, October). *Thought control ability as mediator of the relationship between insomnia and depression and anxiety symptoms.* Poster presented at the Annual Meeting of World Association of Sleep Medicine, Prague, Czech.

Hu, X., & Gawronski, B. (2017, January). *The effectiveness of counterconditioning and instructions in changing implicit and explicit evaluations.* Poster at the Social Cognition Preconference at the 18th Annual Meeting of the Society for Personality and Social Psychology, San Antonio, TX. USA.

Rigney, A.E., Schnyer, D.M., **Hu, X.,** & Beer, J.S. (2016, April). *What you don't remember can hurt you: Unwanted and "forgotten" self-relevant memories elicit distinct ERP memory trace.* Poster presented at the 9th Annual Meeting of the Social & Affective Neuroscience Society, New York City, NY. USA.

Hu, X., & Gawronski, B. (2016, January). *The effectiveness of counterconditioning and instructions in changing implicit and explicit evaluations.* Poster at the 17th Annual Meeting of the Society for Personality and Social Psychology, San Diego, CA. USA.

Hu, X., Yuan, J., Bodenhausen, G. V., & Fu, S. (2015, February). *Unconsicous social categorization biases perceptual and evaluative processes*. Poster presented at 16th Annual Meeting of the Society for Personality and Social Psychology, Long Beach, CA. USA.

Pornpattananangkul, N., **Hu., X.,** & Nusslock, R. (2014, September). *Threat/reward sensitivity and hypomanic personality modulate cognitive-monitoring to incongruent affective stimuli*. Poster presented at the 28th Annual Meeting of the Society for Research in Psychopathology, Evanston, IL. USA.

Hu, X., & Rosenfeld, J. P. (2014, September). *The effect of memory suppression in P300-based concealed information test.* Poster presented at 54th Annual Meeting of Society for Psychophysiological Research, Atlanta, GA. USA.

Hu, X., Pornpattananangkul, N., & Nusslock, R. (2014, April). *Executive control- and reward-related processes in voluntary deception*. Poster presented at the 21st Annual Meeting of the Cognitive Neuroscience Society, Boston, MA. USA.

Nusslock, R.,Pornpattananangkul, N., & **Hu, X.** (2014, March). *Behavioral inhibition sensitivity modulates emotion processing during inhibitory control*. Poster presented at the 33rd Annual Meeting of the Anxiety and Depression Association of America, Chicago, IL. USA.

Hu, X., & Bodenhausen, G. V. (2014, February). *The effect of counter-evaluative and counter-stereotypical training in implicit prejudice regulation*. Poster presented at 15th Annual Meeting of the Society for Personality and Social Psychology, Austin, TX. USA.

Pornpattananangkul, N., **Hu, X.,** Reynolds, E., & Nusslock, R. (2013, April). *Behavioral activation, inhibition, and hypomanic personality moderate neurocognitive components during an emotional Go/Nogo task*. Poster presented at the 20th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA. USA.

Hu, X., Pornpattananangkul, N., Reynolds, E., & Nusslock, R. (2013, April). *Feedback-related negativity and reward sensitivity predict spontaneous cheating behavior*. Poster presented at the 6th Annual Meeting of the Social & Affective Neuroscience Society, San Francisco, CA. USA.

Hu, X., Pornpattananangkul, N., Nusslock, R., & Bodenhausen, G. V. (2013, January). *Reward sensitivity and moral self-concept predict dishonest behavior.* Poster presented at 14th Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA. USA.

Hu, X., & Rosenfeld, J. P. (2012, September). *Combining the P300-complex trial-based concealed information test and the reaction time-based autobiographical implicit association test in concealed memory detection*. Poster presented at 52nd Annual Meeting of Society for Psychophysiological Research, New Orleans, LA. USA.

Hu, X., Chen, H., & Fu, G. (2011, September). *The practice effect on deception: Behavioral and electrophysiological evidence.* Poster presented at 51st Annual Meeting of Society for Psychophysiological Research, Boston, MA. USA.

Hu, X., Hegeman, D., Landry, E., Rosenfeld, J. P., Winograd, M., Sokolovsky, A., & Labkovsky, E. (2010, October). *Reaction time and P300 and conducting four or six lumping countermeasures to eight irrelevant in the complex trial protocol*. Poster presented at 50th Annual Meeting of Society for Psychophysiological Research, Portland, OR. USA.

Labkovsky, E., Rosenfeld, J. P., & **Hu, X.** (2010, October). *Investigating the P900 component with 5-button complex trial protocol for detection of deception*. Poster presented at 50th Annual Meeting of Society for Psychophysiological Research, Portland, OR. USA.

Hu, X., Fu, G., & Wu, H. (2009, October). *The N2 effect in truthful and deceptive responses to autobiographical information*. Poster presented at 49th Annual Meeting of Society for Psychophysiological Research, Berlin, Germany.

Wu, H., Fu, G., & **Hu, X.** (2009, October). *Effect of willingness on deceptive and honest responses in a two-stimulus paradigm: An ERP study*. Poster presented at 49th Annual Meeting of Society for Psychophysiological Research, Berlin, Germany.

Hu, X., Fu, G., Luo, Y., & Shi, Z. (2008, November). *Understanding the neural underpinnings of autism spectrum disorder from its correlation with mirror neuron system*. Poster presented at the 2008 Asian-Pacific Conference of Mind Brain and Education, Nanjing, China.

Hu, X., Zhu, Y., Wu, H., Fu, G., & Ding, X. (2007, December). *Contemporary trends in deception detection using polygraph, event-related potentials and functional magnetic resonance imaging*. Poster presented at the Zhejiang Conference of Psychology, Hangzhou, China.

Du, Y., Fu, G., Ye, X., Zhu, Y., & **Hu, X.** (2007, November). *Research on the validity of guilty movement test in lie detection*. Paper presented at the 11th National Academic Congress of Psychology, Kaifeng, China.

Shimada, Y., Ding, X., **Hu, X.,** Fu, G., & Itakura, S. (2006, July). *Adults' affinity with infant sound: Effect of long term experience and short term experience of sound.* Poster presented at the Biennial International Conference on Infant Studies, Kyoto, Japan.

RESEARCH GRANTS

Principal Investigator, On-going:

2023-2025 **Principal Investigator.** Employing emotion regulation to facilitate memory control. No. 17614922, HKD 1,019,442. General Research Fund, Hong Kong Research Grants Council.

2022-2027 **Principal Investigator.** Intervention research of insomnia based on mechanisms of maladaptive emotional memory processing. No. 2022ZD0214100, CNY 5,000,000. Ministry of Science and Technology of China.

2022-2025 **Principal Investigator.** Neurocognitive mechanisms of targeted memory reactivation during human sleep. No.32171056, CNY 590,000 (~708,883 HKD). General Program, National Natural Science Foundation of China.

Principal Investigator, Completed

2020-2022 **Principal Investigator.** Modulating emotional memories during sleep. No.31922089, CNY 1,300,000 (~1,563,600 HKD). Excellent Young Scientists Fund (Hong Kong and Macau), National Natural Science Foundation of China.

2018-2021 **Principal Investigator.** Understanding mnemic neglect in self-evaluation: a sleep-based memory consolidation perspective. No. 17601318, HKD 603,332. General Research Fund, Hong Kong Research Grants Council.

2018-2020 **Principal Investigator.** Training to control unwanted emotional memories: A longitudinal study. No. 31700953, CNY 290,000 (~ HKD 348,800). Young Scientists Fund, National Natural Science Foundation of China.

2018-2020 **Principal Investigator.** How memory control influences unwanted emotional memories' automatic expressions. No. 27610617, HKD 704,702. Early Career Scheme, Hong Kong Research Grants Council.

INVITED TALKS

Nov 2025 Department of Psychology, York University, UK
Sept 2025 Department of Psychology, National University of Singapore, Singapore

May 2025 Institute of Cognitive Neuroscience, University College London, UK
Apr 2025 Cognitive Brain Mapping Group, Northwestern University, US
Apr 2025 Department of Psychology, University of Texas at Austin, US
Apr 2025 Harvard Medical School, US
Feb 2025 Department of Psychology, The Chinese University of Hong Kong, China.
Dec 2024 Center for Brain Sciences, RIKEN, Japan.
Nov 2024 Institute of Psychology, Chinese Academy of Science, China
Oct 2024 Fudan University, China
July 2024 Zhejiang Lab, China
May 2024 Department of Psychology, Hunan Normal University, China
Dec 2022 Department of Chinese and Bilingual Studies,
The Hong Kong Polytechnic University, China
Sept 2021 Medical Biodynamics Program,
Harvard Medical School, US (virtual)
Sept 2021 The Key Laboratory of Mental Health,
Chinese Academy of Science, China (virtual)
Dec 2019 IDG/McGovern Institute for Brain Research, Beijing Normal University, China
Dec 2019 IDG/McGovern Institute for Brain Research, Peking University, China
Nov 2019 Department of Biomedical Engineering, SUSTech, China
May 2019 School of Psychological Science, Hangzhou Normal University, China
Nov 2018 Department of Psychology, Kyoto University, Japan
Oct 2018 School of Psychological Science, South China Normal University, China
July 2018 Center for Brain and Cognition, Liaoning Normal University, China
Mar 2018 Department of Psychology, Hangzhou Normal University, China
Aug 2017 Institute of Psychology, Chinese Academy of Sciences, China
June 2017 Faculty of Psychology, Southwest University, China
Nov 2016 Department of Applied Social Sciences, City University of Hong Kong, China
Oct 2016 School of Life Science,
University of Electronic Science and Technology of China, China
Sep 2016 College of Psychology and Sociology, Shenzhen University, China
Aug 2016 Department of Rehabilitation Science, Hong Kong Polytechnic University, China
Apr 2016 Department of Psychology, The University of Hong Kong, China
Feb 2016 Department of Psychology, National University of Singapore, Singapore
Jan 2016 Institute of Psychology, Chinese Academy of Science, China
Dec 2015 Department of Psychology, University of New South Wales, Australia
Dec 2015 Department of Psychology, Notre Dame University, US
Oct 2015 Life Science Center, Peking University, China
Oct 2015 Department of Psychology, Peking University, China
July 2015 Department of Psychology, East China Normal University, China
July 2015 Department of Psychology, Beijing Normal University, China
July 2015 Department of Psychology, Peking University, China
June 2015 Institute of Psychology, Chinese Academy of Science,, China
June 2015 Department of Psychology, Tsinghua University, China
June 2015 Department of Psychology, Hangzhou Normal University, China
June 2015 Department of Psychology, Zhejiang Normal University, China
June 2015 Department of Psychology, Zhejiang University, China

June 2015 Department of Psychology, Zhejiang Sci & Tech University, China

PROFESSIONAL AFFILIATIONS

Member, Association for Psychological Science (APS)
Member, Cognitive Neuroscience Society (CNS)
Member, Sleep Research Society (SRS)
Member, Society for Psychophysiological Research (SPR)
Member, Social and Affective Neuroscience Society (SANS)
Member, Society for Personality and Social Psychology (SPSP)

SERVICE

Assistant Dean, Faculty of Social Sciences, Postgraduate Education, 2025-present
Panel Member, Faculty of Social Sciences, Faculty Research Advisory Panel, 2024-present
Panel Member, Faculty of Social Sciences, Curriculum Development Advisory Panel, 2023-present
Co-Leader, Faculty of Social Sciences, Population Wellbeing & Human Behaviour Faculty Strategic Research Theme, 2024-present
Chair, Department of Psychology, Departmental Research Postgraduate Committee, 09/2024-12/2025.
Director, Master in Social Science (Psychology) Program, 07/2022-08/2024
Member, Department of Psychology, Departmental Research Postgraduate Committee, 09/2018- 08/2024 (Acting Chair, 01/2022- 08/2022)
Member, Department of Psychology, Research Ethics Committee, 07/2016-08/2018

EDITORIAL SERVICE

Editorial Board

2026-present *PLOS Biology*
2024- present *eLife*
2024- present *Fundamental Research*
2022- present *Communications Psychology*
2022- present *Chinese Journal of Applied Psychology 應用心理學*
2018- present *Acta Psychologica Sinica 心理學報*

Ad Hoc Reviewer – Book Proposals

Cambridge University Press, Elsevier/Academic Press

Ad Hoc Reviewer - Grant & Fellowship Proposals

A-STAR Singapore, Czech Science Foundation, National Natural Science Foundation of China Research Foundation – Flanders (FWO), Swiss National Science Foundation, United States National Science of Foundation

Ad Hoc Reviewer – Journal Articles

Nature Human Behaviour, Neuron, Nature Communications, Science Bulletin, Psychological Bulletin, PLOS Biology, Current Biology, Psychotherapy and Psychosomatics, Journal of Neuroscience, SLEEP, Neuroscience & Biobehavioral Review, among others.

Full list:
Advances in Psychological Science, Asian Journal of Social Psychology, Behavior Research Method, Biological Psychology, Brain Imaging and Behavior, Clinical Psychological Science, Clinical Psychology and Psychotherapy, Cognition, Cognitive, Affective, and Behavioral Neuroscience, Cognitive Neuropsychology, Communications Biology, Cerebral Cortex, Cortex, Current Directions in Psychological Science, Drug and Alcohol Dependence, European Journal of Social Psychology, Frontiers in Human Neuroscience, Frontiers in Behavioral Neuroscience, Frontiers in Psychology, Human Brain Mapping, iScience, International Journal of Psychophysiology, IEEE Transactions on Information Forensics and Security, Journal of Neuroscience, Media Psychology, Memory, Nature Communications, Nature Human Behavior, Neuron, NeuroImage, Neuroscience, Neuorscience & Biobehavioral Review, Neuroscience Bulletin, Journal of Applied Research in Memory and Cognition, Journal of Experimental Psychology General, Journal of Experimental Social Psychology, Journal of Personality and Social Psychology, Journal of Sleep Research, PLOS Biology, PLOS ONE, PsyCh Journal, Psychological Bulletin, Psychology & Marketing, Psychotherapy and Psychosomatics, Psychoneuroendocrinology, Psychophysiology, SLEEP, Sleep Medicine Reviews, Science Bulletin, Scientific Report, Social Cognitive & Affective Neuroscience, Social Neuroscience, Substance Abuse Treatment, Prevention and Policy

TEACHING ACTIVITIES

2026 Spring Special topics in Neuroscience: Memory (200-level)
2025 Fall Seminar in Social Psychology (Postgraduate Level)
2025 Fall Social Psychology (Postgraduate Level)
2024 Fall Seminar in Social Psychology (Postgraduate Level)
2024 Fall Social Psychology (Postgraduate Level)
2024 Spring Seminar in Cognitive Psychology (Postgraduate Level)
2023 Fall Seminar in Social Psychology (Postgraduate Level)
2023 Fall Social Psychology (Postgraduate level)
2022 Spring Developmental Neuroscience (200-level)
2022 Fall Seminar in Social Psychology (Postgraduate Level)
2022 Fall Social Psychology (Postgraduate level)
2022 Spring Developmental Neuroscience (200-level)
2021 Fall Seminar in Social Psychology (Postgraduate Level)

2021 Fall Social Psychology (Postgraduate level)
2020 Fall Seminar in Social Psychology (Postgraduate Level)
2020 Fall Social Psychology (Postgraduate level)
2020 Fall Developmental Neuroscience (200-level)
2019 Fall Seminar in Social Psychology (Postgraduate Level)
2019 Fall Social Psychology (Postgraduate level)
2019 Spring Introduction to Psychology (100-level)
2019 Spring Seminar in Social Psychology (Postgraduate Level)
2018 Fall Social Psychology (Postgraduate level)
2018 Spring Advanced Social Psychology (300-level)
2018 Spring Seminar in Social Psychology (Postgraduate Level)
2017 Fall Social Psychology (Postgraduate Level)
2017 Spring Seminar in Social Psychology (Postgraduate Level)
2016 Fall Social Psychology (Postgraduate level)
2012 Fall Introduction to Neuroscience (200-level)

SUPERVISION

Postdoctoral Fellows

2025-present Dr. Danni Chen
2025-present Dr. Tianqi Di
2023-2025 Dr. Ziqing Yao
2022-present Dr. Qiyu Zheng (co-supervision with Prof. Cora Lai)
2022-present Dr. Tao Xia
2021-2022 Dr. Jing Liu (RGC Postdoctoral Fellow, now Associate Professor at South China Normal University)
2021-2022 Dr. Haiyang Geng (now Research Scientist at TCCI, Shanghai).

Graduate Students (Ph.D.)

2025- present Chenyang Gao
2024- present Jiahui Li
2024- present Xibo Zuo
2023- present Zexuan Evokee Mu
2023- present Yuqi Zhang
2021- present Sean Shuyi Guo
2021- present Winny Yue
2019- 2025 Danni Chen
2019- 2023 Hui Xie (now Post-doc Fellow at South China Normal University)
2018- 2023 Shengzi Zeng (now Post-doc Fellow at Harvard Medical School)
2018- 2022 Tao Xia (now Post-doc Fellow at HKU)
2018- 2022 Xuanyi Lin (now Post-doc Fellow at Northwestern University)
2018- 2022 Qiyu Zheng (now Post-doc Fellow at HKU)
2018- 2022 Ziqing Yao (now Post-doc Fellow at HKU)

Graduate Students (M.Phil.)

2025- present Xiao Joy Han
2025- present Sen Mu
2022- 2024 Lingqi Zhang
2020- 2022 Yiwen Zhong (Ph.D. at Vanderbilt University)
2019- 2021 Mohith Verma (Ph.D. at Cambridge University)
2019- 2021 Rui Jin (Ph.D. at The University of Florida)

Ph.D. Examination Committee-Internal

2025 Letian LEI
2025 Hao Fong SIT
2024 Ran WANG
2023 Zaixuan ZHANG
2022 Yuen Yan TAM
2022 Seong Hah CHO
2021 Nianzeng ZHONG
2021 Mengxia GAO
2021 Jing Jun WONG
2020 Charlene Lok-man LAM
2020 Jiefan LING
2019 Tonglin JIANG
2019 Yui Han CHAN
2018 Ruibin ZHANG
2018 Wanqi SUN
2018 Miao CHENG
2017 Nichol Man Lok WONG

Ph.D. Examination Committee-External

2020 Shanshan ZHEN (National University of Singapore)

Undergraduate Honor Thesis

2023-24 Antonius Siu Kwan Tam, Eunice Man Hei Choi, Iva Yan Cheuk Tsang, Chi Lam Chan
2022-23 Zexuan Mu, Nicholas Wong, Yunke Chen
2021-22 Kei Fung, Kary Cheng, Xiaoru Teng, Lingqi Zhang
2020-21 Yuheng Shi, Lok Sum Chan
2019-20 Man Yan Claude Lam, Hong Ying Josephine Lo
2018-19 Pui Hay Claudia Chan, Ho Yu Hody Lee, Wing Shan Sammi Chung, Jie Li
2017-18 Sze Wing Christy Ho, Mohith Varma, Xilu Xiao, Shengzi, Zeng
2016-17 Lok In Serene Cheung, Xuanchang Fang, Minghui Ni, Yung Yuen Yee

SUPERVISEE AWARDS: Research Postgraduate and Post-Doc Trainees

2025 Jing Liu, APS Rising Star Award, Associations for Psychological Sciences.
2025 Yuqi Zhang, Outstanding Oral Presentation, Department of Psychology, HKU.
2024 Danni Chen, Dissertation Year Fellowship
2024 Shengzi Zeng, HKU Foundation Award for Outstanding Research Postgraduate Students.
2024 Sean Guo, Graduate Student Award, Cognitive Neuroscience Society.
2024 Tao Xia, Graduate Research Publication Award, Department of Psychology, HKU.
2023 Sean Guo, Best Poster Presenter Award, HKU Presidential Scholars Symposium.
2023 Shengzi Zeng, Graduate Research Publication Award, Department of Psychology, HKU.
2022 Danni Chen, Outstanding Presentation Award, National Ph.D. Research Symposium in Psychology, Sun Yat-Sen University, Guangzhou.
2022 Mohith Varma, HKU Foundation Award for Outstanding Research Postgraduate Students.
2021 Yiwen Zhong, Outstanding Poster Presentation Award, Department of Psychology, HKU.
2021 Xuanyi Lin, Outstanding Presentation Award, 21st Annual Research Postgraduate Conference, Faculty of Social Science, HKU.
2021 Mohith Varma, Student Diversity Registration Award, Association for Psychological Science.
2021 Danni Chen, International Registration Award, Society for Personality and Social Psychology.
2021 Mohith Varma, International Registration Award, Society for Personality and Social Psychology.
2020 Shengzi Zeng, First Runner-up Presentation Award, Postgraduate Conference on Biomedical Engineering and Brain Sciences, Guangdong.
2020 Xuanyi Lin, First Runner-up Presentation Award, Postgraduate Conference on Biomedical Engineering and Brain Sciences, Guangdong.
2020 Xuanyi Lin, Second Runner-up Presentation Award, Postgraduate Conference on Biomedical Engineering and Brain Sciences, Guangdong.
2020 Shengzi Zeng, Outstanding Presentation Award, 20th Annual Research Postgraduate Conference, Faculty of Social Science, HKU.
2020 Rui Jin, Graduate Student Travel Award, Society for Personality and Social Psychology.
2019 Xuanyi Lin, Outstanding Oral Presentation Award, Department of Psychology, HKU.
2019 Shengzi Zeng, Outstanding Poster Presentation Award, Department of Psychology, HKU.

SUPERVISEE AWARDS: Undergraduate

2023 Siu Kwan Antonious Tam, Undergraduate Research Fellowship, HKU
2023 Man Hei Eunice Choi, Undergraduate Research Fellowship, HKU
2023 Michelle Pui Yan LEE, Laidlaw Scholar, HKU
2022 Nicholas Wong, Undergraduate Research Fellowship, HKU
2022 Yunke Chen, Undergraduate Research Fellowship, HKU
2021 Kei Fung, Undergraduate Research Fellowship, Internship Award, HKU
2021 Xiaoru Teng, Undergraduate Research Fellowship, HKU
2020 Wing Lam Yip, Laidlaw Scholar, HKU
2019 Hong Ying Josephine Lo, Laidlaw Scholar, HKU
2018 Jie Li, Laidlaw Scholar, HKU

MEDIA COVERAGE

BBC, Chicago Tonight, Daily Mail, Discover Magazine, Daily Northwestern, Guokr, Korea Herald, LiveScience, Med India, Medical Express, Medical Daily, NBC News, NEON Magazine, NPR, New York Times, Science Daily, The British Psychological Society, The Conversation, The Guardian, Time of India, Yahoo! News, UPI, Women Health, and various other media outlets around the world including Argentina, Australia, China, Germany, Great Britain, Korea, India, Indonesia, Russia, Switzerland, U.S., Vietnam, etc.