

Xiao-Xiong LIN

CONTACT INFORMATION	ln.xxng@gmail.com	XiaoXiongLin.com
EDUCATION	Ludwig-Maximilian University of Munich , Munich, Germany Fast-track PhD, Computational and Systems Neuroscience, Oct. 2016 – Sept. 2023 Peking University , Beijing, P.R.China B.S., Cognitive Neuroscience , GPA: 3.6/4.0 B.A., Art	July 2016 July 2017
RESEARCH EXPERIENCE	Postdoctoral Research Department of Neurosurgery, Technical University of Munich Advisors: Prof. Simon Jacob • data analysis of chronic calcium imaging of mice during task acquisition PhD Research Project Department of Neurosurgery, Technical University of Munich Advisors: Prof. Simon Jacob, Prof. Christian Leibold, Prof. Moritz Grosse-Wentrup • population-level neural coding for working memory and flexible behavior Research Project Faculty of Philosophy, Philosophy of Science and Religious Studies, Ludwig-Maximilian University of Munich Advisor: Prof. Ophelia Deroy • Contextual value representation Research Project Technical University of Munich Organizer: Prof. Jorg Conradt • Image segmentation using convolutional neural networks Research Project Graduate School of Systemic Neuroscience, Ludwig-Maximilian University of Munich Advisor: Prof. Christian Leibold • Computational modeling of hippocampal representation of space Research Assistant School of Psychological and Cognitive Sciences, Peking University Advisors: Prof. Yan Bao and Prof. Ernst Pöppel • Frequency modulated analytic and holistic processing modes of auditory temporal order perception • Temporal information processing in poetry appreciation • Temporal integration indexed by mismatch negativity (EEG)	Oct. 2023 – Jan. 2024 Apr. 2018 – Sept. 2023 Oct. 2017 – Mar. 2018 Apr. 2017 – Aug. 2017 Mar. 2017 – May 2017 May 2014 – July 2016
TEACHING	Teaching Assistant, Neuromatch Academy • deep learning • methods in computational neuroscience	Aug 2021 Aug 2020

	Instructor, ViaX online education • perception and cognition	Nov 2016 – Oct 2018
AWARDS	Graduate School of Systemic Neuroscience, University of Munich • Doctoral scholarship	2017
	Peking University • Award for Excellence in Research • Research Grant from President's Foundation • Award for Excellence in Courses	2015 2014 2013
	China Computer Federation • First Award in 17th National Olympiad in Informatics in Provinces (awarded <1.5%)	2011
PUBLICATIONS	Computational and systems neuroscience <ol style="list-style-type: none">1. Lin, X.-X., Nieder, A., Jacob, S.N. (2023). The neuronal implementation of representational geometry in primate prefrontal cortex. <i>Science Advances</i>.2. Eisenkolb, V. M., Held, L. M., Utzschmid, A., Lin, X.-X., Krieg, S. M., Meyer, B., ... & Jacob, S. N. (2023). Human acute microelectrode array recordings with broad cortical access, single-unit resolution and parallel behavioral monitoring. <i>Cell Reports</i>. Cognitive neuroscience <ol style="list-style-type: none">1. Zhang, Z.; Lin, X.; Bao, Y.. (2023). Holistic temporal order judgment of tones requires top-down disentanglement. <i>PsyCh Journal</i>, 12(4), 491-499.2. Bao, Y., Pöppel, E., Wang, L., Lin, X., Yang, T., Avram, M., ... Vedder, A. (2015). Synchronization as a biological, psychological and social mechanism to create common time: a theoretical frame and a single case study. <i>PsyCh Journal</i>, 4(4), 243-254.3. Bao, Y., Yang, T., Lin, X., & Pöppel, E. (2016). Donders revisited: Discrete or continuous temporal processing underlying reaction time distributions? <i>PsyCh Journal</i>, 5(3), 177-179.4. Wang, L., Bao, Y., Zhang, J., Lin, X., Yang, L., Pöppel, E., & Zhou, B. (2016). Scanning the world in three seconds: Mismatch negativity as an indicator of temporal segmentation. <i>PsyCh Journal</i>, 5(3), 170-176.5. Wang, L., Lin, X., Zhou, B., Pöppel, E., & Bao, Y. (2015). Subjective present: a window of temporal integration indexed by mismatch negativity. <i>Cognitive Processing</i>, 16(1), 131-135.6. Wang, L., Lin, X., Zhou, B., Pöppel, E., & Bao, Y. (2016). Rubberband effect in temporal control of mismatch negativity. <i>Frontiers in Psychology</i>, 7. Neural aesthetics <ol style="list-style-type: none">1. Bao, Y., Yang, T., Zhang, J., Zhang, J., Lin, X., Paolini, M., ... & Silveira, S. (2017). The "third abstraction" of the Chinese artist LaoZhu: Neural and behavioral indicators of aesthetic appreciation. <i>PsyCh Journal</i>, 6(2), 110-119.2. Bao, Y., Yang, T., Lin, X., Fang, Y., Wang, Y., Pöppel, E., & Lei, Q. (2016). Aesthetic Preferences for Eastern and Western Traditional Visual Art: Identity Matters. <i>Frontiers in Psychology</i>, 7.	

CONFERENCE PRESENTATIONS	<ol style="list-style-type: none"> 1. Lin, X., Jacob, S.N.(2022). Neuronal implementation of the representational geometry in prefrontal working memory. Poster at Cosyne. Lisbon, Portugal. 2. Lin, X. Nieder, A., Jacob, S.N.(2019). Reorganization of working memory coding after distraction by switching of target- selective populations in primate prefrontal cortex. Poster at SfN Society for Neuroscience, Chicago, IL, US. 3. Lin, X., Wang, L., Mo, C., Bao, Y.(2015). Volume of precuneus predicts overall appreciation of abstract art. Poster at Vision Science of Art Conference, Liverpool, U.K. 4. Lin, X., Wang, L., Bao, Y.(2015). Time aesthetics: a temporal integration window of poetic prosody. Poster at Conference of Deutsche Gesellschaft für Medizinische Psychologie (German Association of Medical Psychology), Munich, Germany
SKILLS	<p>Coding</p> <ul style="list-style-type: none"> • proficient: Python (Numpy, Pytorch, Scikit-learn, Tensorflow, Matplotlib) • have experience: MatLab, C++ and (html+css+JavaScript) <p>Language</p> <ul style="list-style-type: none"> • Mandarin Chinese (native), English (fluent), German (good command) <p>Others</p> <ul style="list-style-type: none"> • Video editing
AUDIO-VISUAL PRODUCTIONS	<p>Video productions at Pearvideo</p> <ul style="list-style-type: none"> • Habitants of Chernobyl Chernobyl, Ukraine, 2019 • Hallstatt, the plagiarized town Hallstatt, Austria, 2018 • Documenta 14 on-site reporting Kassel, Germany, 2017 <p>Vice chair, TV Station of Peking University Mar 2014 – Mar 2015</p> <ul style="list-style-type: none"> • Supervise TV program making • Produced corporate video
ARTISTIC WORK	<p>Hidalgo Collective Nov 2022 – present</p> <ul style="list-style-type: none"> • facial expression recognition web app for concert "Who Are You" (2023) • stage design for classical music concerts • conceptual art • AI technology support <p>PKU Drama Society Sept 2012 – July 2016</p> <ul style="list-style-type: none"> • Director, <i>The Ghost Sonata</i> (2016) Beijing, China • Actor, <i>the 3rd International Youth Classical Drama Festival</i> (2014) Messini, Greece • Actor, <i>Beijing International Youth Drama Festival</i> (2014) Beijing, China • Instructor of actor training
REFERENCES	<p>Prof. Simon Jacob Translational NeuroTechnology Lab Technical University of Munich Ismaninger Str. 22 81675 Munich Germany Phone: +49 (89) 4140-7636</p>

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Relationship: PhD thesis advisor, lab rotation supervisor, mentor

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Relationship: Collaborator, mentor