CURRICULUM VITAE

TIANHE WANG

Tianhe Wang

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RESEARCH INTERESTS

Flexibility in human learning and decision-making. Computational principles of motor control and skill acquisition. The role of the cerebellum in cognition.

EDUCATION

2020-2026

PhD in Psychology, concentration in Cognitive Neuroscience

Department of Psychology, University of California Berkeley, Berkeley, CA USA

Advisor: Richard Ivry

2016-2020

Bachelor of Science in Biological Science

Honor Thesis: How children and adolescents balance between equity and efficiency

School of Life Science, Peking University, Beijing, China

PUBLICATIONS

Manuscripts under review

2024

T Wang*, Y Fang, D Whitney

Sequential effects in reaching reveal efficient coding in motor planning

BioRxiv.

2024

T Wang*, J Li, RB Ivry

Attention defines the context for implicit sensorimotor adaptation

BioRxiv.

2024

T Wang*, RB Ivry

Contextual effects during sensorimotor adaptation are an emergent property of population coding in the

cerebellum

BioRxiv.

Peer-reviewed manuscripts

2024

T Wang, RJ Morehead, JS Tsay, RB Ivry

The origin of movement biases during reaching

Elife

2024

T Wang, G Avraham, JS Tsay, SJ Abram, RB Ivry

Perturbation variability does not influence implicit sensorimotor adaptation

PLOS Computational Biology

2024

T Wang, G Avraham, JS Tsay, T Thummala, RB Ivry

Advanced feedback enhances sensorimotor adaptation

Current Biology

2023

S Chen, T Wang, Y Bao

Serial dependence in timing at the perceptual level being modulated by working memory

PsyCh Journal

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	2023	NM van Mastrigt, JS Tsay, T Wang , G Avraham, SJ Abram, K van der Kooij, JBJ Smeets, RB Ivry Implicit reward-based motor learning Experimental Brain Research	
2023		T Wang , Y Luo, RB Ivry, JS Tsay, E Pöppel, Y Bao A unitary mechanism underlies adaptation to both local and global environmental statistics in time perception PLOS Computational Biology	
	2022	JS Tsay, T Najafi, L Schuck, T Wang , RB Ivry Implicit sensorimotor adaptation is preserved in Parkinson's disease Brain Communications	
	2021	T Wang, JA Taylor Implicit adaptation to mirror reversal is in the correct coordinate system but the wrong direction Journal of neurophysiology	
	2021	T Wang , Z Zhu, I Kana, Y Yu, H He, K Wei Accuracy of hand localization is subject-specific and improved without performance feedback Scientific Reports	
FELLO	WSHII	PS & AWARDS	
	2025	NCM Scholarship award, Society for the Neural Control of Movement	
	2022	Travel Fellowship, University of California Berkeley	
	2021	Department Fellowship, University of California Berkeley	
	2020	Shentong Distinguished Graduate Award, Peking University	
TALKS			
	2025	Contextual effects during implicit recalibration are an emergent property of population coding in a cerebellar model	
		Neural Control of Movement Conference, Panama City, Panama	
	2025	Cerebellar ataxia patients exhibit accurate representation of a temporal prior despite noisy evidence Cerebellum Gordon Research Seminar, Vaud, Switzerland	
	2023	A cerebellar population coding model for sensorimotor adaptation 2023 Berkeley Neuroscience Conference, Taheo City, CA	
	2023	A cerebellar population coding model for sensorimotor adaptation Advances in Motor Learning and Motor Control, Washington DC, USA	
	2022	Serial dependence reveals an active suppression in the sequential motor planning Advances in Motor Learning and Motor Control, San Diego, CA	
	2021	Why is online feedback more effective than endpoint feedback for sensorimotor adaptation? Advances in Motor Learning and Motor Control, Virtual Conference	
	2021	Sequential effect in duration reproduction is from both perception and response	

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Tianhe Wang

International Conference on Spatial Cognition, Rome, Italy

PROFESSIONAL EXPERIENCE

Teaching Experience

Graduate student instructor
 Human Neuroanatomy
 Department of Psychology, UC Berkeley

 Graduate student instructor
 Cognitive Neuroscience
 Department of Psychology, UC Berkeley

 Undergraduate teaching instructor
 Methods in Psychology Research

Department of Psychology, Peking University

Service Experience

2023-2024	Member of Searching Committee for the Biological Basis of Behavior, UC Berkeley	
2023	Graduate Student Mentor for Research Experience Pathways in Psychology Program, UC Berkeley	

Ad Hoc Reviewer

Journal of Neuroscience; Cerebral Cortex; Communications Biology; Journal of Neurophysiology; Scientific Reports; NPJ Science of Learning; Human movement science; Journal of Behavioral and Brain Science

ADVISING & MENTORSHIP

Undergraduate Students (*indicates honors thesis student)

2025-present | Noah A Math - UC Berkeley

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2025-present	Mihail Dimitrov - UC Berkeley
2025-present	Ijin Yu - UC Berkeley
2025-present	Suqing Xie - UC Berkeley
2024	Mary Swanson-Wunder - UC Berkeley
2024-present	Maoxin M Xia* - Wuhan University
2024-present	Amber Jiang - UC Berkeley
2023-present	Yuling Li - UC Berkeley
2023	Marina J Armstrong - UC Berkeley
2022-2024	Tony Lam - UC Berkeley
2022-2024	Yifan Fang - UC Berkeley
2021-2023	Jialin J Li - UC Berkeley
2021-2024	Tanvi Thummala* - UC Berkeley