Tianqing Li

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RESEARCH INTER	RESTS	
I am a third-year motion capture ar	PhD Candidate at Duke University, focusing on developing computational methods that add nd link behavioral dynamics to the brain activities using machine learning and computer vision.	ress animal 3D
EDUCATION — Aug 2021-Current	Duke University Ph.D. Candidate in Biomedical Engineering (Expected graduation: May 2026. GPA: 4.00/4.00 Advisor: Timothy W. Dunn	Durham, NC)
Dec 2020	University of California, Los Angeles B.S. in Applied Mathematics, Bioengineering (Summa Cum Laude, Dean's List, GPA: 3.94/4.00	Los Angeles, CA))
JOURNAL PUBLIC	CATIONS	
2023	Mapping the Landscape of Social Behavior Klibaite U*, <u>Li T*</u> , Aldarondo D, Akoad JF, Olveczky BP, Dunn TW. Under review at <i>Cell</i> .	
2023	Improved Markerless 3D Animal Pose Estimation Using Temporal Semi-Supervision Li T, Severson KS, Wang F, Dunn TW. International Journal of Computer Vision. Jointly appeared at CVPR CV4Animals Workshop 2022 as poster.	
2022	Leaving Flatland: Advances in 3D Behavioral Measurement Marshall JD, <u>Li T</u> , Wu JH, Dunn TW. <i>Current Opinion in Neurobiology</i> .	
CONFERENCE PR	OCEEDINGS	
2024	Vector Quantized Representations for Efficient Hierarchical Delineation of Behavioral Reper Li T, Klibaite U, Akoad J, Wu JH, Dunn TW. Computational and Systems Neuroscience (Cosyne	toires).
2023	Quantitative Profiling of Social Behavior Using 3D Pose Estimation and Multi-Scale Classification Klibaite U*, <u>Li T*</u> , Aldarondo D, Akoad JF, Zmarz P, Olveczky BP, Dunn TW. <i>McKnight Foundation Annual Meeting</i> .	
2023	Capturing the Social Spectrum in ASD Rats Klibaite U, <u>Li T</u> , Aldarondo D, Dunn TW, Olveczky BP. <i>Bulletin of the American Physical Society.</i>	
2021	A Multi-Pronged Evaluation for Image Normalization Techniques <u>Li T</u> , Wei L, Hsu W. International Symposium on Biomedical Imaging (ISBI).	
PROFESSIONAL E		
May-Aug 2024	Incoming Research Scientist Intern, Meta Reality Labs	New York, NY
Aug 2021-Current	t.Dunn Lab (Doctoral Thesis Research), Duke University	Durham, NC
•	Develop and deploy neural networks for 3D pose estimation and tracking of laboratory anin	nals, facilitating
	quantitative studies of social behaviors across rodent models of autism [Code].	
	understanding and simulating realistic animal behaviors.	
•	Develop cross-modality models that correlate and integrate behavioral actions with neural ac	tivities.
Apr 2020-Apr 2021	Research Assistant. Hsu Lab. UCLA Medical & Imaging Informatics	Los Angeles. CA
•	Investigated 3D generative models for image quality enhancement of low-dose lung CT sca	ans. Performed
	multi-pronged analysis on its impact on diagnostic features and downstream clinical tasks. Developed semi-/self-supervised deep learning models for breast mass detection and classi sound scans [Code, Code].	fication in ultra-
Nov 2019-Mar 2020	Student Researcher. Wu Lab	Los Angeles, CA
•	Conducted 3D printing prototyping and tested different materials used for dental aligner deve	lopment.
Sep 2018-Sep 2019	Student Researcher, HHMI Undergraduate Research for Translational Biophotonics Los Angeles, CA	
	croscopy for biological samples using WATLAD. Fresenced at HHIVII Undergraduate Conterent	UULA, ZUIY.
TEACHING —	Teaching Assistant	Durbam NC
2022, 2020	BME 590: Introduction to Biomedical Data Science	burnani, No
PRESENTATIONS		
2023	Harvard Neurolunch "High-Resolution 3D Tracking of Freely Interacting Animals for Multi-Scale Classification of S	Cambridge, MA ocial Behavior"
AWARDS	Pohert Plansey Fellowshin	Durkana NO
2022, 2024	Duke Conference Travel award	Durham, NC Durham, NC