

MICHAEL WAKEHAM

mwakeham@bu.edu
mikewakeham.github.io

RESEARCH INTERESTS	novel view synthesis, visual generative models, vision language models, controllable generation, world models, spatiotemporal scene understanding, 3D/4D reconstruction	
EDUCATION	Boston University <i>B.A. in Computer Science</i>	Boston, MA 2023 - 2027
	• Honors Thesis (in progress): Spatial Intelligence in Vision-Language Models from Egocentric Infant Video • Graduate Coursework: Deep Visual Generative Models, Advanced Topics in Computer Vision, Multimodal Machine Learning, Computer Vision, Deep Learning, Machine Learning, Computer Graphics	
PUBLICATIONS	1. M Wakeham, MK Das, W Wang, A Tewari, B Gong, D Ghadiyaram. “A 3D-Driven Framework for Moving-Camera Perspective-to-360° Video Generation”. <i>IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)</i>, 2027 2. S Wang*, W Wang*, Z Wang*, M Whitton*, M Wakeham, A Chandra, J Huang, P Zhu, H Chen, D Li, JL Li, S Li, A Zagula, A Zhao, A Zhu, S Nakamura, Y Yamamoto, JJ Yokono, A Mueller, BA Plummer, K Saenko, V Saligrama, B Gong. “BabyVLM-V2: Toward Developmentally Grounded Pretraining and Benchmarking of Vision Foundation Models”. <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2026	
EXPERIENCE	Research Assistant Boston University <i>Advisors: Boqing Gong, Deepti Ghadiyaram</i>	May 2025 - present
	• Proposed and developed a framework for panoramic video generation from perspective video via a 3D-driven formulation; published as first-author [1] • Designed and built a cognitively-inspired benchmark for assessing spatiotemporal reasoning in VLMs via object motion in video clips; published as co-author [2] • Received UROP Student Research Award for undergraduate research funding	
	Visiting Research Intern Kempner Institute <i>Advisors: Qianqian Wang, Ruojin Cai</i>	July 2026 - present
	• Studying how to create a visuotactile object representation from pretrained visual shape priors (SAM3D) for dexterous manipulation tasks	
TEACHING & MENTORING	BU RISE Research Mentor Boston University	Summer 2026
	• Mentored four high-school students conducting computer vision research on in-the-wild tracking of fish; resulted in NeurIPS 2026 workshop paper [link]	
	Course Staff Boston University	
	• CS 541: Applied Machine Learning (Course Assistant)	Spring 2026
	• CS 542: Machine Learning Principles (Grader)	Fall 2025