Yanming Xiu

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EDUCATION				
Aug 2022 — Present	Ph.D. in Electrical and Computer Engineering, Duke University	Durham, NC, USA		
Aug 2018 — Jun 2022	Bachelor of Engineering in Auotmation (Robotics Concentration)), Zhejiang University	Hangzhou, Zhejiang Chin:		
	 GPA: 3.85/4.0 Rank: Top 15% Awards: Outstanding Graduates of Zhejiang University (2022); Zhejiang University First Scholarship (2021); Academic Excellent Reward (2021) Core Courses: Computer Vision, Robotics, Machine Learning, Embedded Systems, Control Theory 			
RESEARCH INTERESTS	Computer Vision			
	Computer Vision, 3D-Reconstruction, Medical Imaging			
	Machine Learning			
	Deep Learning, Supervised Machine Learning			
	Robotics			
	UAV, Robotic Arms			
RESEARCH PROJECTS				
Jan 2023 — Present	MRI Data Harmonization	Duke University		
	Advisor: Dr. Yun Wang			
	 Adapted Cycle GAN model to 3D version for MRI data harmonization Used other models such as PTNet-3D for MRI harmonization Tested the harmonization quality by doing brain segmentation 			
Nov 2022 — Jun 2023	Hypothalamus Segmentation with Deep Learning	Duke University		
	Advisor: Dr. Yun Wang			
	 Collected and organized a hypothalamus MRI dataset; Applied deep learning framework such as ResNet and UNet to hypothalamu 	is segmentation task		
Sep 2021 — Jan 2022	HRNet based Clothes Landmark Detection and Clothes Folding Robots	University of Hong Kong (Remote), Zhejiang University		
	Advisor: Prof. Wenping Wang (HKU), Prof. Yiping Feng (ZJU)			
	Award: Outstanding Student Research Project of Zhejiang University (Third Prize)			
	 Used HRNet for clothes landmarks detection by predicting the location of key-points Applied the detecting system to robotic arm, and test with images obtained directly by the robot Programmed the robotic arm to perform clothes folding 			
Sep 2021 — Nov 2021	Establishing dataset of videos and corpus	University of Hong Kong		
	Advisor: Prof. Wenping Wang	(remote))		
	Recorded videos of simple objects in a simulation robotics system (Connelia)	Sim)		

Recorded videos of simple objects in a simulation robotics system (CoppeliaSim)
Manually generated descriptive text and key frame information data to describe the position of objects.

SKILLS	0 0	Programming Languages Python, Matlab, Bash, LaTeX Frameworks and Tools: PyTorch, Numpy, Jupyter Notebook, Nibabel, Freesurfer, FSL, ROS, Docker				
	Frameworks an					
LANGUAGES	English	Good working knowledge	Chinese (Mandarin)	Native speaker		
LEADERSHIP AND EX	TRA-CURRICULAR	ACTIVITIES				
Aug 2019 — Jan 2020	Undergraduate	Undergraduate Teaching Assistant in Modern Chinese History		Zhejiang University		
Mar 2019 — Jul 2019	Leader of Tug-	Leader of Tug-of-War Team				
HOBBIES	Fitness Body Build	ing; Self-driving Trip; Cooking				