

# Angela Xing

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EDUCATION	<b>Brown University</b> <i>Sc.B. Computer Science</i> Expected Graduation May 2024 <ul style="list-style-type: none"><li>Relevant Coursework: Computer Vision, Introduction to Computer Graphics, Deep Learning</li></ul>
RESEARCH EXPERIENCE	<b>Undergraduate Research Assistant</b> <i>Brown Interactive 3D Vision and Learning Lab</i> June 2022 - Present <ul style="list-style-type: none"><li>Created a large-scale, real-world 360° multi-view data set of dynamic sequences to enable continued progress in dynamic neural field research</li><li>Evaluated dynamic neural field methods on image reconstruction quality for the data set to provide a benchmark for neural field methods</li><li>Improved the accuracy of a hand-pose estimation method to extract 3D key points and joint angles from multi-view images</li></ul>
UNDER REVIEW	<b>DiVa-360: The Dynamic Visual Dataset for Immersive Neural Fields</b> Cheng-You Lu*, Peisen Zhou*, <u>Angela Xing*</u> , Chandradeep Pokhariya, Arnab Dey, Ishaan Shah, Rugved Mavidipalli, Dylan Hu, Andrew Comport, Kefan Chen, Srinath Sridhar (* equal contribution) Submitted to CVPR 2024 <a href="#">Website</a>
	<b>MANUS: Markerless Hand-Object Grasp Capture using Articulated 3D Gaussians</b> Chandradeep Pokhariya, Ishaan N Shah*, <u>Angela Xing*</u> , Zekun Li, Kefan Chen, Avinash Sharma, Srinath Sridhar (* equal contribution) Submitted to CVPR 2024 <a href="#">Website</a>   <a href="#">ArXiv</a>
TEACHING EXPERIENCE	<b>Teaching Assistant</b> <i>Introduction to Computer Graphics</i> Summer 2022 <ul style="list-style-type: none"><li>Created and improved lab and project handouts, stencil code, and solution code to optimize student learning and understanding</li><li>Tested, provided feedback, and refined handouts and stencil code to ensure clarity and conciseness in assignments</li></ul>
RELEVANT PROJECTS	<b>Pix2Vox</b> November 2022 <ul style="list-style-type: none"><li>Converted the Pix2Vox-F encoder-decoder and context-aware fusion models from PyTorch to TensorFlow to recover 3D voxel representations of objects from single and multi-view images</li><li>Trained, evaluated, and tested the TensorFlow model on the ShapeNet data set</li></ul>

	<b>Voxel Carving</b>	June 2022
	<ul style="list-style-type: none"> <li>◦ Produced a 3D voxel representation of a dinosaur and a temple using the Open3D Python library from images taken at multiple camera views</li> </ul>	
	<b>3D Reconstruction</b>	May 2022
	<ul style="list-style-type: none"> <li>◦ Compared quality of 3D reconstructed faces using a Kinect V2 depth sensor and the iPhone depth camera</li> </ul>	
	<b>Dorms at Brown</b>	April 2022
	<ul style="list-style-type: none"> <li>◦ Developed a website that provides Brown University students with more information regarding the dorms on campus (pictures, details, and reviews)</li> <li>◦ Focused on implementing the dorm filtering system by utilizing API calls to gather dorm information from a database</li> </ul>	
	<b>Underwater Scene</b>	December 2021
	<ul style="list-style-type: none"> <li>◦ Generated camera movement along a path defined by a piecewise Bezier curve</li> <li>◦ Modeled corals using L-systems</li> </ul>	
<b>EXTRA CURRICULARS</b>	<b>NCAA Division I Women's Gymnastics</b>	September 2020 - Present
	<i>Varsity Athlete on the Brown Women's Gymnastics Team</i>	
	<ul style="list-style-type: none"> <li>◦ Competed and placed 3rd in individual finals on beam at the USA Gymnastics (USAG) National Championships in 2022</li> <li>◦ Earned first-team USAG All-American honors on beam and second-team USAG All-American honors on vault in 2022</li> <li>◦ Earned first-team Gymnastics East Conference (GEC) honors on beam (2023) and second-team GEC honors on vault (2022)</li> <li>◦ Named Women's Collegiate Gymnastics Association (WCGA) Academic All-American and USAG Scholar Athlete in 2022 and 2023</li> <li>◦ Trains at weekly practices and lifts (20 hours total a week) and travels each weekend throughout the winter/spring for competitions (January - April)</li> </ul>	
<b>TECHNICAL SKILLS</b>	<b>Languages</b>	
	<ul style="list-style-type: none"> <li>◦ <i>Advanced</i>: Python, Java</li> <li>◦ <i>Intermediate</i>: C++, React, JavaScript, TypeScript, HTML</li> <li>◦ <i>Proficient</i>: Selenium, ReasonML, Scala</li> </ul>	