
EDUCATION	Brown University <i>Doctor of Philosophy, Computer Science</i> Advisor: Professor Daniel Ritchie	Sept '21 - Present GPA: 4.00
	The University of Texas at Austin <i>Bachelor of Science, Computer Science</i>	Aug '18 - Aug '21

EXPERIENCE	Adobe Research - San Francisco, CA <i>Research Scientist Intern</i> , Mentors: Noam Aigerman, Thibault Groueix, Vova Kim (Ongoing) Formulated a new neural architecture for learning on surfaces.	May '23 - Dec '23
	Adobe Research - Remote <i>Research Scientist Intern</i> , Mentors: Sören Pirk, Matt Fisher, Vova Kim Developed a neural representation of procedural noise for inverse material modeling.	May '22 - Dec '22
	Brown University <i>Research Assistant</i> , Advisor: Prof. Daniel Ritchie	Sept '21 - Present
	UT Austin · Computational Visualization Center (CVC) <i>Undergraduate Researcher</i> , Advisor: Prof. Chandrajit Bajaj Synthesized adversarial textures that robustly cloak humans from object detectors.	Aug '20 - Dec '20
	UT · Department of Computer Science <i>Undergraduate Researcher</i> , Advisor: Prof. Chandrajit Bajaj Trained neural network to evaluate chess positions, and created the largest public dataset of labeled chess positions (at the time).	May '19 - June '20
	UT San Antonio · Department of Mathematics <i>Undergraduate Researcher</i> , Advisor: Prof. Cody Patterson Derived the probability density function and moments of the area of stochastically generated inscribed triangles.	Aug '17 - May '18

PUBLICATIONS	One Noise to Rule Them All: Learning a Unified Model of Spatially-Varying Noise Patterns. Arman Maesumi, Dylan Hu, Krishi Saripalli, Vladimir G. Kim, Matthew Fisher, Sören Pirk, Daniel Ritchie. <i>ACM Transactions on Graphics (Proceedings of SIGGRAPH)</i> 2024.
	Explorable Mesh Deformation Subspaces from Unstructured 3D Generative Models. Arman Maesumi, Paul Guerrero, Vladimir G. Kim, Matthew Fisher, Siddhartha Chaudhuri, Noam Aigerman, Daniel Ritchie. <i>SIGGRAPH Asia</i> 2023.
	Triangle Inscribed-Triangle Picking. Arman Maesumi. <i>The College Mathematics Journal</i> , 50:5, 364-371, 2019.

HONORS & AWARDS	NSF Graduate Research Fellowship (GRFP)	2022
	MD5 Hackathon: 1st Place Entry Awarded \$15,000 grant from Department of Defense	2017
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SERVICE	Reviewing Eurographics 2025 SIGGRAPH Asia 2024, 2025 TVCG 2024 ICCV 2023	
	Departmental Service Brown Visual Computing Seminar co-organizer Brown PhD Admissions NSF Research Experiences for Undergraduates Program (REU) mentor	2023 - Present 2025 2024, 2025
	Mentorship Aruna Anderson Nicole Ge Krishi Saripalli	Visiting Undergraduate (NSF REU) 2025 Visiting Undergraduate (NSF REU) 2025 Brown CS Undergraduate 2024
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SOFTWARE	Panopti: Interactive 3D Visualization in Python pip install panopti https://github.com/ArmanMaesumi/panopti	
	TorchRBF: GPU-Accelerated Radial Basis Function Interpolator pip install torchrbf https://github.com/ArmanMaesumi/torchrbf	
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SKILLS	Programming Languages Python, C/C++, CUDA, JavaScript, Go, Java	
	Tools & Technologies PyTorch, PyTorch C++/CUDA API, NumPy, L ^A T _E X, LibIGL, Linux, Pybind11, Flask, SocketIO, React, ThreeJS	
	Miscellaneous Blender, Adobe Ps/Ai/Ae, Cinema 4D, Octane Render, OpenGL, ComfyUI	
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PERSONAL	3D Art Portfolio https://www.behance.net/armanmaesumi	
	HumanBenchmark Verbal Memory 735pts (> 99.5 percentile)	
	Rubik's Cube Personal Record 11.25 seconds	