
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, Krishni 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) April '22

MD5 Hackathon: 1st Place Entry 2017
Awarded \$15,000 grant from Department of Defense

SERVICE

Reviewing

Eurographics 2025
SIGGRAPH Asia 2024, 2025
TVCG 2024
ICCV 2023

Departmental Service

Brown Visual Computing Seminar co-organizer 2023 - Present
Brown PhD Admissions 2025
NSF Research Experiences for Undergraduates Program (REU) mentor 2024, 2025

Mentorship

Aruna Anderson Visiting Undergraduate (NSF REU) 2025
Nicole Ge Visiting Undergraduate (NSF REU) 2025
Krishi Saripalli Brown CS Undergraduate 2024

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>

SKILLS

Programming Languages

Python, C/C++, CUDA, JavaScript, Go, Java

Tools & Technologies

PyTorch, PyTorch C++/CUDA API, NumPy, L^AT_EX, LibIGL, Linux, Pybind11, Flask, SocketIO, React, ThreeJS

Miscellaneous

Blender, Adobe Ps/Ai/Ae, Cinema 4D, Octane Render, OpenGL, ComfyUI

PERSONAL

3D Art Portfolio

<https://www.behance.net/armanmaesumi>

HumanBenchmark Verbal Memory

735pts (> 99.5 percentile)

Rubik's Cube Personal Record

11.25 seconds