Arman Maesumi · arman_maesumi@brown.edu · armanmaesumi.github.io

EDUCATION

Brown University — Sept '21 - Present
Doctor of Philosophy, Computer Science — GPA: 4.00
Advisor: Professor Daniel Ritchie

The University of Texas at Austin — Aug '18 - Aug '21
Bachelor of Science, Computer Science

EXPERIENCE

Adobe Research - San Francisco, CA — May '23 - Present
Research Scientist Intern, Mentors: Noam Aigerman, Thibault Groueix, Vova Kim
Developing neural architecture for learning on surfaces.

Adobe Research - Remote — May '22 - Dec '22
Research Scientist Intern, Mentors: Sören Pirk, Matt Fisher, Vova Kim
Developed a neural representation of procedural noise for inverse material modeling.

Brown University — Sept '21 - Present
Research Assistant, Advisor: Prof. Daniel Ritchie

UT Austin · Computational Visualization Center (CVC) — Aug '20 - Dec '20
Undergraduate Researcher, Advisor: Prof. Chandrajit Bajaj
Learning 3D Adversarial Cloaks for Deep Object Detectors [PDF]

UT Austin — May '19 - June '20
Undergraduate Researcher, Advisor: Prof. Chandrajit Bajaj
Playing Chess with Limited Look Ahead [PDF]

UT San Antonio · Department of Mathematics — Aug '17 - May '18
Undergraduate Researcher, Advisor: Prof. Cody Patterson
Triangle Inscribed-Triangle Picking [PDF]

PUBLICATIONS

Google Scholar

Explorable Mesh Deformation Subspaces from Unstructured 3D Generative Models. **Arman Maesumi**, Paul Guerrero, Noam Aigerman, Vladimir G. Kim, Matthew Fisher, Siddhartha Chaudhuri, Daniel Ritchie, *SIGGRAPH Asia 2023*.

Triangle Inscribed-Triangle Picking. **Arman Maesumi**, *The College Mathematics Journal*, 50:5, 364-371, 2019.

MANUSCRIPTS

Learning Transferable 3D Adversarial Cloaks for Deep Trained Detectors. **Arman Maesumi***, Mingkang Zhu*, Yi Wang, Tianlong Chen, Zhangyang Wang, Chandrajit Bajaj, 2020.

HONORS & AWARDS

NSF Graduate Research Fellowship (GRFP) — April '22

University Honors, Dean's List, President's List — 2020, 2018, 2017

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

SKILLS

Programming Languages
Python, Go, Java, C/C++, JavaScript, TypeScript, Mathematica

Tools & Technologies
PyTorch, TensorFlow, Keras, PyTorch3D, NumPy, LaTeX, Linux

Miscellaneous
Blender, Adobe Photoshop/Illustrator, Cinema 4D, Octane Render, OpenGL, Three.js

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PERSONAL
GitHub

3D Art Portfolio
https://www.behance.net/armanmaesumi

GPU-Accelerated Radial Basis Function Interpolator
`pip install torchrbf`
https://github.com/ArmanMaesumi/torchrbf

Vodder.gg (*Python, JavaScript, Flask*) 2020-2022
A highlight detection service and tool suite for Twitch.tv livestreams