Aditya Ganeshan

GRADUATE STUDENT, BROWN UNIVERSITY

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Email-id : adityaganeshan@gmail.com Webpage : https://bardofcodes.github.io Github : https://github.com/BardOfCodes

Education	Brown University , US Doctor of Philosophy, Computer Science	August 2021 - present	
	Indian Institute of Technology, Roorkee, India Integrated Master of Science, Applied Mathematics Thesis: Per-pixel feedback for improving semantic segmentation	August 2012 - July 2017	
Professional Experience	Research Assistant Brown Visual Computing Lab, Brown University	August 2021 - present	
	Mentor: Daniel Ritchie Research Scientist Intern Adobe, San Francisco	June 2025 - September 2025	
	Mentor/Manager: Thibault Grouiex Visiting Associate Researcher Igarashi Lab, University of Tokyo, Tokyo	December 2024 - February 2025	
	Mentors: Maria Larsson & Takeo Igarashi Research Scientist Intern Adobe, San Francisco	June 2024 - September 2024	
	Mentor/Manager: Matthew Fisher Researcher Preferred Networks Inc., Tokyo, Japan	December 2018 - May 2021	
	Manager: Shin-Ichi Maeda Research Assistant <i>Video Analytics Lab, Indian Institute of Science</i> Mentor/Manager: R V Babu	2017 - November 2018	
Scholarships & Awards & Honors	Outstanding Reviewer (top 8%), NeurIPS 2022 Highlighted Reviewer (top 8%), ICLR 2022 Winner, Deep Perception Hackathon, Machine Learning Tokyo, Winner, AutoNUE: Scene Understanding Challenge, ECCV, Ge INSPIRE Scholarship, Indian Institute of Technology, Roorkee,	rmany September 2018	
Conference Publications	Pattern Analogies: Learning to Perform Programmatic Image Edits by Analogy, CVPR'25, A Ganeshan, T Groueix, P Guerrero, R Měch, M Fisher, D Ritchie.		
	Learning to Edit Visual Programs with Self-Supervision, NeurIPS'24, R K Jones, R Zhang, A Ganeshan, D Ritchie.		
	Improving Unsupervised Visual Program Inference with Code Rewriting Families, ICCV'23 (Oral - 1.8%), A Ganeshan, R K Jones, D Ritchie.		
	Skill Generalization with Verbs, IROS'23, R Ma, L Lam, B A Spiegel, A Ganeshan , B Abbatematteo, I Konidaris.	R Patel, D Paulius, S Tellex, G	

	Improving Semantic Segmentation via Cycle-consistent Video Auto-labelling, ICCV'21, A Ganeshan, A Vallet, Y Kudo, S I. Maeda, T Kerola, R Ambruș, D Park, A Gaidon.		
	Phonetroller: Visual Representations of Fingers for Precise Touch Input when u VR, CHI'21, F Matulic, A Ganeshan, H Fujiwara, D Vogel.	sing a Phone in	
	Meta-learning Extractors for Music Source Separation, ICASSP'20, D Samuel, A Ganeshan, J Naradowsky.		
	FDA: Feature Disruptive Attack, ICCV'19,A Ganeshan, B S Vivek, R V Babu.		
	iSPA-Net: Iterative Semantic Pose Alignment Network, ACMMM'18, J N Kundu [*] , A Ganeshan [*] , R M Venkatesh [*] , A Prakash , R V Babu.		
Journal Article	ParSEL: Parameterized Shape Editing with Language, SIGGRAPH Asia 2024, A Ganeshan, R Y Huang, X Xu, R K Jones, D Ritchie.		
	Generalizable data-free objective for crafting universal adversarial perturbations, M K Reddy*, A Ganeshan*, R V Babu.	TPAMI'18,	
Workshop Papers	Object Pose Estimation from Monocular Image using Multi-View Keypoint Correspondence, (ECCV '18) "Geometry Meets Deep Learning" Workshop 2018, J N Kundu*, R M Venkatesh*, A Ganeshan*, R V Babu.		
Pre-Prints	Creating Language-driven Spatial Variations of Icon Images, Arxiv 2024, X Xu, A Ganeshan, K D D Willis, Y Pu, D Ritchie.		
	Open-Universe Indoor Scene Generation using LLM Program Synthesis and U Databases, Arxiv 2024, R Aguina-Kang, M Gumin, D H Han, S Morris, S J Yoo, A Ganeshan, R K J K Fu, D Ritchie.	·	
DISSERTATION	Per-Pixel Feedback for improving Semantic Segmentation. Master's Dissertation, Indian Institute of Techonology, Roorkee, 2017. A Ganeshan.		
Teaching Experience	CSCI 2240: Advanced Computer Graphics, Brown University, Providence Graduate Teaching Assistant with Professor Daniel Ritchie.	Spring 2023	
	DS-265: Deep Learning for Computer Vision, IISc, India Teaching Assistant with Professor R V Babu.	Spring 2018	
Reviewing	CVPR 2025, SIGGRAPH 2025, CG Forum, EuroGraphics CVPR 2024, ECCV 2024, SIGGRAPH 2024, SIGGRAPH Asia 2024 IROS 2023, CVPR 2023, ICCV 2023, NeurIPS 2023, ICCV 2021, ICML 2021, ICLR 2022, CVPR 2022, NeurIPS 2022, AAAI 2020, NeurIPS 2020, ECCV 2020, CVPR 2021	2024-2025 2023-2024 2022-2023 2021-2022 2019-2020	

* equal contribution

SERVICE	Volunteer		
	SIGGRAPH 2023, LA, US	August 2023	
	Student Mentor		
	ExploreCSR, Brown University, US	Feb 2023 - May 2023	
	Study Group Leader (REU Site)		
	AI for computational creativity, Brown University, US	June 2022 - July 2022	
	Head Volunteer		
	RLDM 2022, Brown University, US	June 2022	
	Member of Global Internship Committee		
	Preferred Networks Inc, Japan	May 2019 - November 2020	
	General Secretary,		
	Music Section, IIT Roorkee, India	May 2015 - May 2016	

OTHER GeoLIPI

Projects

A DSL for 2D/3D Implicit Geometric Modelling in python.	Spring 2024
Pack Poly	
Packing polyominoes with SMT solvers and analysing their stability.	Spring 2023
Neural Volumetric Primitives	
Compressing a dataset of 3D shapes with a codebook + neural networks	a. Autumn 2022
Branching BAD	
Branching many world Bootstrapped Abstraction Discovery from scrate	h. spring 2023
A Special Place in Hell	
A casual projectile-shooting game with a morbid sense of humour.	May 2018
DRL in CV	
A course on using Deep RL in computer vision.	2017-2018
Flying Furniture Dataset	
Code for creating the Flying Furniture dataset.	spring 2018
Defense against the dark arts	
Evaluation of defense mechanisms against UAP generation algorithms.	May 2018