

Aditya Ganeshan

GRADUATE STUDENT, BROWN UNIVERSITY

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EDUCATION	Brown University, US <i>Doctor of Philosophy, Computer Science</i>	August 2021 - present
	Indian Institute of Technology, Roorkee, India <i>Integrated Master of Science, Applied Mathematics</i> Thesis: <i>Per-pixel feedback for improving semantic segmentation</i>	August 2012 - July 2017

PROFESSIONAL EXPERIENCE	Research Assistant <i>Brown Visual Computing Lab, Brown University</i>	August 2021 - present
	Researcher <i>Preferred Networks, Inc., Tokyo, Japan</i>	December 2018 - May 2021
	Research Assistant <i>Video Analytics Lab, Indian Institute of Science</i>	2017 - November 2018

SCHOLARSHIPS & AWARDS & HONORS	<i>Outstanding Reviewer (top 8%), NeurIPS 2022</i>	June 2022
	<i>Highlighted Reviewer (top 8%), ICLR 2022</i>	April 2022
	<i>Winner, Deep Perception Hackathon, Machine Learning Tokyo, Japan</i>	September 2019
	<i>Winner, AutoNUE: Scene Understanding Challenge, ECCV, Germany</i>	September 2018
	<i>INSPIRE Scholarship, Indian Institute of Technology, Roorkee, India</i>	2012 - 2017

CONFERENCE PUBLICATIONS	<i>Improving Unsupervised Visual Program Inference with Code Rewriting Families,</i> Oral (1.8%), ICCV'23, A. Ganeshan , R. K. Jones, D. Ritchie.	
	<i>Skill Generalization with Verbs,</i> IROS'23, R. Ma, L. Lam, B. A. Spiegel, A. Ganeshan , B. Abbatematteo, R. Patel, D. Paulius, S. Tellex, G. Konidaris.	
	<i>Improving Semantic Segmentation via Cycle-consistent Video Auto-labelling,</i> ICCV'21, A. Ganeshan , A. Vallet, Y. Kudo, S. I. Maeda, T. Kerola, R. Ambruş, D. Park, A. Gaidon.	
	<i>Phonetroller: Visual Representations of Fingers for Precise Touch Input when using a Phone in VR,</i> CHI'21, F. Matulic, A. Ganeshan , H. Fujiwara, D. Vogel.	
	<i>Meta-learning Extractors for Music Source Separation,</i> ICASSP'20, D. Samuel, A. Ganeshan , J. Naradowsky.	
	<i>FDA: Feature Disruptive Attack,</i> ICCV'19, A. Ganeshan , B. S. Vivek, R. V. Babu.	
	<i>iSPA-Net: Iterative Semantic Pose Alignment Network,</i> ACMMM'18, J. N. Kundu*, A. Ganeshan* , R. M Venkatesh*, A. Prakash , R. V. Babu.	

* equal contribution

JOURNAL ARTICLE	Generalizable data-free objective for crafting universal adversarial perturbations, TPAMI'18, M.K. Reddy*, A. Ganeshan* , R. V. Babu.		
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.		
DISSERTATION	Per-Pixel Feedback for improving Semantic Segmentation. Master's Dissertation, Indian Institute of Techonology, Roorkee, 2017. A. Ganeshan.		
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TEACHING EXPERIENCE	DS-265: Deep Learning for Computer Vision, IISc, India Teaching Assistant with Professor Venkatesh R. Babu		Spring 2018
REVIEWING	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		2022-2023 2021-2022 2019-2020
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SERVICE	Volunteer SIGGRAPH 2023, LA, US Student Mentor ExploreCSR, Brown University, US Study Group Leader (REU Site) AI for computational creativity, Brown University, US Head Volunteer RLDM 2022, Brown University, US Member of Global Internship Committee Preferred Networks Inc, Japan General Secretary, Music Section, IIT Roorkee, India		August 2023 Feb 2023 - May 2023 June 2022 - July 2022 June 2022 May 2019 - November 2020 May 2015 - May 2016
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OTHER PROJECTS	A Special Place in Hell A casual projectile-shooting game with a morbid sense of humour. DRL in CV A course on using Deep RL in computer vision. Pack Poly Packing polyominoes with SMT solvers and analysing their stability. Neural Volumetric Primitives Compressing a dataset of Shapes with a codebook + neural networks. Branching BAD Branching many world Bootstrapped Abstraction Discovery from scratch. Flying Furniture Dataset Code for creating The Flying Furniture dataset. Defense against the dark arts Evaluation of defense mechanisms against UAP generation algorithms. Render with Point Projections Code for Rendering with blender, and 3D keypoints to 2D projection.		May 2018 2017-2018 Spring 2023 Autumn 2022 spring 2023 spring 2018 May 2018 Autumn 2017

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