

Aditya Ganeshan

GRADUATE STUDENT, BROWN UNIVERSITY

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., 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, NeurIPS 2022</i>	June 2022
	<i>Highlighted Reviewer, 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

TEACHING EXPERIENCE	<i>DS-265: Deep Learning for Computer Vision, IISc, India</i> <i>Teaching Assistant with Professor Venkatesh R. Babu</i>	Spring 2018
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REVIEWING	<i>ICCV 2021, ICML 2021, ICLR 2022, CVPR 2022, NeurIPS 2022,</i> <i>AAAI 2020, NeurIPS 2020, ECCV 2020, CVPR 2021</i>	2021-2022 2019-2020
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INTERN ADVISING	<i>Quang Nguyen: Improved one-shot model for Multiple Object Tracking</i> <i>David Samuel: Meta-learning Extractors for Music Source Separation</i>	Summer 2020 Summer 2019
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PAPERS UNDER REVIEW	A. Ganeshan , R. K. Jones, D. Ritchie, <i>Intermittent Code Rewriting for Unsupervised Visual Program Inference.</i> 2022
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JOURNAL ARTICLE	M.K. Reddy*, A. Ganeshan* , R. V. Babu, <i>Generalizable data-free objective for crafting universal adversarial perturbations.</i> (TPAMI'18) <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018.
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* equal contribution

CONFERENCE PUBLICATIONS	A. Ganeshan , A. Vallet, Y. Kudo, S. I. Maeda, T. Kerola, R. Ambrus, D. Park, A. Gaidon, <i>Improving Semantic Segmentation via Cycle-consistent Video Auto-labelling.</i> (ICCV’21) <i>International Conference on Computer Vision, 2021.</i>	
	F. Matulic, A. Ganeshan , H. Fujiwara, D. Vogel, <i>Phonetroller: Visual Representations of Fingers for Precise Touch Input when using a Phone in VR.</i> (CHI’21) <i>ACM CHI Conference on Human Factors in Computing Systems 2021.</i>	
	D. Samuel, A. Ganeshan , J. Naradowsky <i>Meta-learning Extractors for Music Source Separation.</i> (ICASSP’20) <i>International Conference on Acoustics, Speech and Signal Processing 2020.</i>	
	A. Ganeshan , B. S. Vivek, R. V. Babu, <i>FDA: Feature Disruptive Attack.</i> (ICCV’19) <i>International Conference on Computer Vision, 2019.</i>	
	J. N. Kundu*, A. Ganeshan* , R. M Venkatesh*, A. Prakash , R. V. Babu, <i>iSPA-Net: Iterative Semantic Pose Alignment Network.</i> (ACMMM’18) <i>ACM International Conference on Multimedia 2018.</i>	
WORKSHOP PAPERS	J.N. Kundu*, R. M Venkatesh*, A. Ganeshan* , R. V. Babu, <i>Object Pose Estimation from Monocular Image using Multi-View Keypoint Correspondence.</i> (ECCV-W’18) “Geometry Meets Deep Learning” Workshop 2018.	
DISSERTATION	A. Ganeshan , <i>Per-Pixel Feedback for improving Semantic Segmentation.</i> <i>Master’s Dissertation, Indian Institute of Techonology, Roorkee, 2017.</i>	
SERVICE	Study Group Leader (REU Site) <i>AI for computational creativity, Brown University, US</i> June 2022 - July 2022	
	Head Volunteer <i>RLDM-22, Brown University, US</i> June 2022	
	Member of Global Internship Committee <i>Preferred Networks Inc, Japan</i> May 2019 - November 2020	
	General Secretary, <i>Music Section, IIT Roorkee, India</i> May 2015 - May 2016	
SIDE PROJECTS	A Special Place in Hell A casual projectile-shooting game with a morbid sense of humour.	
	DRL in CV A personally curated course in Deep RL in computer vision.	
GITHUB PROJECTS	flying_furniture Code for creating <i>The Flying Furniture</i> dataset.	
	render_wt_pt_proj Code for Rendering with blender, and 3D keypoints to 2D projection.	
	defence_against_the_dark_arts Evaluation of various defense mechanisms against various UAP generation algorithms.	

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