

# Tejas Gokhale

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APPOINTMENT	<b>Assistant Professor</b> Department of Computer Science & Electrical Engineering University of Maryland, Baltimore County <b>Affiliated Faculty, <a href="#">UMBC AI Center</a></b>	
RESEARCH AREA	Robust computing for perception, communication, learning, and reasoning. Computer Vision, Machine Learning, Robustness & Reliability, Multimodal Learning	
EDUCATION	<b>Doctor of Philosophy</b> , Arizona State University School of Computing and Augmented Intelligence <i>Advisors:</i> <a href="#">Yezhou Yang</a> , <a href="#">Chitta Baral</a> <i>Thesis:</i> Towards Reliable Semantic Vision	2023
	<b>Master of Science</b> , Carnegie Mellon University Department of Electrical and Computer Engineering <i>Mentor:</i> <a href="#">Aswin Sankaranarayanan</a>	2017
	<b>Bachelor of Engineering (Honours)</b> , BITS Pilani Department of Electrical and Electronics Engineering	2015
EMPLOYMENT HISTORY	<b>Microsoft Research</b> Research Intern, <a href="#">Adaptive Systems and Interaction Group</a> <i>Mentors:</i> <a href="#">Hamid Palangi</a> , <a href="#">Besa Nushi</a> , <a href="#">Vibhav Vineet</a> , <a href="#">Eric Horvitz</a>	Summer 2022
	<b>Lawrence Livermore National Laboratory</b> Research Scholar, <a href="#">Machine Intelligence Group</a> <i>Mentors:</i> <a href="#">Rushil Anirudh</a> , <a href="#">Jay Thiagarajan</a> , <a href="#">Bhavya Kailkhura</a>	Summer 2021, 2020
	<b>Arizona State University</b> Graduate Research Associate, <a href="#">School of Computing and AI</a> Graduate Teaching Associate, <a href="#">School of Computing and AI</a>	2018–2023 2018–2020
	<b>Snap Research</b> Research Intern, <a href="#">Computational Imaging Group</a> <i>Mentors:</i> <a href="#">Guru Krishnan</a> , <a href="#">Shree Nayar</a>	Summer 2018
	<b>Carnegie Mellon University</b> Graduate Student Researcher, <a href="#">Dept. of Electrical and Computer Engineering</a>	2017–2018
	<b>ST Microelectronics</b> Intern, <a href="#">High Speed Links Group</a>	Fall 2014
	<b>Steel Authority of India Limited</b> Summer Intern, <a href="#">Bhilai Steel Plant</a>	Summer 2013

PUBLICATIONS    See my [Google Scholar](#) page for recent updates and citation information.  
underlined: graduate advisee;  $\Psi$ : student mentee at ASU

## Conference Proceedings

- [C1] Agneet Chatterjee $\Psi$ , **Tejas Gokhale**, Chitta Baral, Yezhou Yang. On the Robustness of Language Guidance for Low-Level Vision Tasks: Findings from Depth Estimation. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, . 2024.  
<https://arxiv.org/abs/2404.08540> (to appear in) CVPR 2024
- [C2] Maitreya Patel $\Psi$ , **Tejas Gokhale**, Chitta Baral, Yezhou Yang. ConceptBed: Evaluating Concept Learning Abilities of Text-to-Image Diffusion Models. In Proceedings of the AAAI Conference on Artificial Intelligence, vol. 38, no. 13, pp. 14554-14562. 2024.  
<https://arxiv.org/abs/2306.04695> AAAI 2024
- [C3] Sheng Cheng, **Tejas Gokhale**, Yezhou Yang. Adversarial Bayesian Augmentation for Single-Source Domain Generalization. In Proceedings of the IEEE/CVF International Conference on Computer Vision, pp. 11400-11410. 2023.  
<https://arxiv.org/abs/2307.09520> ICCV 2023
- [C4] Man Luo, Zhiyuan Fang, **Tejas Gokhale**, Yezhou Yang, Chitta Baral. End-to-end Knowledge Retrieval for Multi-modal Queries. In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), pp. 8573-8589. 2023.  
<https://arxiv.org/abs/2306.00424> ACL 2023
- [C5] **Tejas Gokhale**, Rushil Anirudh, Jayaraman J. Thiagarajan, Bhavya Kailkhura, Chitta Baral, and Yezhou Yang. Improving Diversity with Adversarially Learned Transformations for Domain Generalization. In Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision, pp. 434-443. 2023.  
<https://arxiv.org/abs/2206.07736> WACV 2023
- [C6] Maitreya Patel $\Psi$ , **Tejas Gokhale**, Chitta Baral, and Yezhou Yang. 2022. CRIPP-VQA: Counterfactual Reasoning about Implicit Physical Properties via Video Question Answering. In Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing, pp. 9856-9870. 2022.  
<https://arxiv.org/abs/2211.03779> EMNLP 2022
- [C7] **Tejas Gokhale**, Abhishek Chaudhary $\Psi$ , Pratyay Banerjee, Chitta Baral, and Yezhou Yang. 2022. Semantically Distributed Robust Optimization for Vision-and-Language Inference. In Findings of the Association for Computational Linguistics: ACL 2022, pp. 1493-1513. 2022.  
<https://arxiv.org/abs/2110.07165> ACL Findings 2022
- [C8] **Tejas Gokhale**, Swaroop Mishra, Man Luo, Bhavdeep Sachdeva, and Chitta Baral. 2022. Generalized but not Robust? Comparing the Effects of Data Modification Methods on Out-of-Domain Generalization and Adversarial Robustness. In Findings of the Association for Computational Linguistics: ACL 2022, pp. 2705-2718. 2022.  
<https://arxiv.org/abs/2203.07653> ACL Findings 2022
- [C9] Neeraj Varshney, Pratyay Banerjee, **Tejas Gokhale**, and Chitta Baral. 2022. Unsupervised Natural Language Inference Using PHL Triplet Generation. In Findings of the Association for Computational Linguistics: ACL 2022, pp. 2003-2016. 2022.  
<https://arxiv.org/abs/2110.08438> ACL Findings 2022

- [C10] Yiran Luo, Pratyay Banerjee, **Tejas Gokhale**, Yezhou Yang, and Chitta Baral. 2022. To Find Waldo You Need Contextual Cues: Debiasing Who’s Waldo. In 60th Annual Meeting of the Association for Computational Linguistics, ACL 2022, pp. 355-361. Association for Computational Linguistics (ACL), 2022.  
<https://arxiv.org/abs/2203.16682> ACL 2022
- [C11] Man Luo, Arindam Mitra, **Tejas Gokhale**, and Chitta Baral. Improving biomedical information retrieval with neural retrievers. In Proceedings of the AAAI Conference on Artificial Intelligence, vol. 36, no. 10, pp. 11038-11046. 2022.  
<https://arxiv.org/abs/2201.07745> AAAI 2022
- [C12] Pratyay Banerjee, **Tejas Gokhale**, Yezhou Yang, and Chitta Baral. Weakly supervised relative spatial reasoning for visual question answering. In Proceedings of the IEEE/CVF International Conference on Computer Vision, pp. 1908-1918. 2021.  
<https://arxiv.org/abs/2109.01934> ICCV 2021
- [C13] Pratyay Banerjee, **Tejas Gokhale**, Yezhou Yang, and Chitta Baral. 2021. WeaQA: Weak Supervision via Captions for Visual Question Answering. In Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021, pp. 3420-3435. 2021.  
<https://arxiv.org/abs/2012.02356> ACL Findings 2021
- [C14] Pratyay Banerjee, **Tejas Gokhale**, and Chitta Baral. 2021. Self-Supervised Test-Time Learning for Reading Comprehension. In Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, pp. 1200-1211. 2021.  
<https://arxiv.org/abs/2103.11263> NAACL 2021
- [C15] **Tejas Gokhale**, Rushil Anirudh, Bhavya Kailkhura, Jayaraman J. Thiagarajan, Chitta Baral, and Yezhou Yang. Attribute-guided adversarial training for robustness to natural perturbations. In Proceedings of the AAAI Conference on Artificial Intelligence, vol. 35, no. 9, pp. 7574-7582. 2021.  
<https://arxiv.org/abs/2012.01806> AAAI 2021
- [C16] **Tejas Gokhale**, Pratyay Banerjee\*, Chitta Baral, and Yezhou Yang. 2020. MUTANT: A Training Paradigm for Out-of-Distribution Generalization in Visual Question Answering. In Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), pp. 878-892. 2020.  
<https://arxiv.org/abs/2009.08566> EMNLP 2020
- [C17] Zhiyuan Fang, **Tejas Gokhale**, Pratyay Banerjee, Chitta Baral, and Yezhou Yang. 2020. Video2 Commonsense: Generating Commonsense Descriptions to Enrich Video Captioning. In Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), pp. 840-860. 2020.  
<https://arxiv.org/abs/2003.05162> EMNLP 2020
- [C18] **Tejas Gokhale**, Pratyay Banerjee\*, Chitta Baral, and Yezhou Yang. Vqa-lol: Visual question answering under the lens of logic. In European conference on computer vision, pp. 379-396. Cham: Springer International Publishing, 2020.  
<https://arxiv.org/abs/2002.08325> ECCV 2020

#### Peer Reviewed Workshop Papers and Extended Abstracts

- [W1] Yiran Luo, Joshua Feinglass, **Tejas Gokhale**, Chitta Baral, Yezhou Yang. Grounding Stylistic Domain Generalization with Quantitative Domain Shift Measures and Synthetic Scene Images. In

Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops.  
2024. CVPR 2024 Vision Datasets Understanding Workshop

- [W2] **Tejas Gokhale**. Towards Robust Visual Understanding: from Recognition to Reasoning. (to appear) In Proceedings of the AAAI Conference on Artificial Intelligence, vol. 38, no. 20, pp. 22665-22665. 2024.  
<https://ojs.aaai.org/index.php/AAAI/article/view/30281> AAAI New Faculty Highlights
- [W3] Sourajit Saha and **Tejas Gokhale**. Improving Shift Invariance in Convolutional Neural Networks with Translation Invariant Polyphase Sampling. In Workshop on Out of Distribution Generalization in Computer Vision at ICCV 2023. ICCV 2023 OOD-CV Workshop
- [W4] **Tejas Gokhale\***, Joshua Feinglass\*, and Yezhou Yang. Covariate Shift Detection via Domain Interpolation Sensitivity. In First Workshop on Interpolation Regularizers and Beyond at NeurIPS 2022.  
<https://openreview.net/pdf?id=YkPjTHZDdm> NeurIPS 2022 Interpolation Workshop
- [W5] Kuldeep Kulkarni, **Tejas Gokhale**, Rajhans Singh, Pavan Turaga, Aswin C. Sankaranarayanan. Halluci-Net: Scene Completion by Exploiting Object Co-occurrence Relationships. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops. 2021.  
<https://arxiv.org/abs/2004.08614> CVPR 2021 AI for Content Creation Workshop
- [W6] **Tejas Gokhale**, Shailaja Sampat, Zhiyuan Fang, Yezhou Yang, and Chitta Baral. Cooking with blocks: A recipe for visual reasoning on image-pairs. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, pp. 5-8. 2019.  
<https://arxiv.org/abs/1905.12042> CVPR 2019 Vision Meets Cognition Workshop
- [W7] **Tejas Gokhale**. Vision beyond Pixels: Visual Reasoning via Blocksworld Abstractions. In IJCAI, pp. 6436-6437. 2019.  
<https://www.ijcai.org/Proceedings/2019/0907.pdf> IJCAI 2019 Doctoral Consortium

### Technical Reports and Preprints

- [P1] Sourajit Saha, Tejas Gokhale. Improving Shift Invariance in Convolutional Neural Networks with Translation Invariant Polyphase Sampling  
<https://arxiv.org/abs/2404.07410> in review
- [P2] Agneet Chatterjee<sup>‡</sup>, Gabriela Ben Melech Stan, Estelle Guez Aflalo, Sayak Paul, Dhruva Ghosh, **Tejas Gokhale**, Ludwig Schmidt, Hannaneh Hajishirzi, Vasudev Lal, Chitta Baral, Yezhou Yang. Getting it Right: Improving Spatial Consistency in Text-to-Image Models  
<https://arxiv.org/abs/2404.01197> in review
- [P3] Agneet Chatterjee<sup>‡</sup>, Yiran Luo, **Tejas Gokhale**, Chitta Baral, Yezhou Yang. Rendering Tools Enable Spatial Fidelity in Vision-Language Models in review
- [P4] Maitreya Patel<sup>‡</sup>, Neeraj Varshney, Agneet Chatterjee<sup>‡</sup>, **Tejas Gokhale**, Yezhou Yang, Chitta Baral. Reliability-Checklist: A Framework for Comprehensively Evaluating the Reliability of NLP Systems <https://github.com/Maitreyapatel/reliability-checklist> Tech Report
- [P5] **Tejas Gokhale**, Hamid Palangi, Besmira Nushi, Vibhav Vineet, Eric Horvitz, Ece Kamar, Chitta Baral, and Yezhou Yang. Benchmarking Spatial Relationships in Text-to-Image Generation. arXiv preprint arXiv:2212.10015 (2022).  
<https://arxiv.org/abs/2212.10015> Tech Report

- [P6] Ethan Wisdom<sup>‡</sup>, **Tejas Gokhale**, Chaowei Xiao, and Yezhou Yang. Mole Recruitment: Poisoning of Image Classifiers via Selective Batch Sampling.  
<https://arxiv.org/abs/2303.17080> in review

## Books and Monographs

- [B1] *Advances in Multimodal Information Retrieval and Generation* Springer  
*Synthesis Lectures on Computer Vision*, ISBN: 978-3-031-57815-1  
 Man Luo, **Tejas Gokhale**, Neeraj Varshney, Yezhou Yang, Chitta Baral. [\[website\]](#)
- [B2] *Advances in Robust Learning for Computer Vision* Springer  
**Tejas Gokhale** (In Preparation)

## Ph.D. Dissertation

- [T1] **Tejas Gokhale**. 2023. Towards Reliable Semantic Vision. Order No. 30426752, Arizona State University. <https://www.proquest.com/docview/2813822780>

## Intellectual Property

- [IP1] *Automated Evaluation of Spatial Relationships in Images* (US Patent App. 18/198,593)
- [IP2] *Systems, Methods, and Apparatuses for Implementing Improved Diversity using Adversarially Learned Transformations for Domain Generalization* (US Patent App. 63/468,653)

## TEACHING

**Instructor**, UMBC  
 CMSC 491/691 Robust Machine Learning Fall 2024  
 CMSC 491/691 Computer Vision Spring 2024, Fall 2023  
 CMSC 898 Pre-Doctoral Candidacy Research Spring 2024  
 CMSC 699 Independent Study Spring 2024, Fall 2023

**Teaching Assistant**, Arizona State University  
 CSE310: Data Structures & Algorithms Spring 2020  
 CSE408: Multimedia Information Systems Spring 2019  
 CSE110: Introduction to Programming, Fall 2018

**Guest Lecturer**, Arizona State University  
 CSE598, Perception in Robotics Spring 2022  
 CSE408, Multimedia Information Systems Spring 2019

**Student Instructor**, BITS Pilani Goa Campus  
 CTE: Advanced Image Processing Spring 2015

## FUNDING

UMBC Summer Research Faculty Fellowship (SURFF) \$8,000; 2024  
 “Improving Continual Learning of Visual Recognition Systems via Targeted Unlearning”

Microsoft Research, [Accelerate Foundation Models Academic Research](#) \$20,000; 2024  
 “A Framework for Quantifying Typicality of AI-Generated Images”

Google Cloud Education Credits \$2350; AY 2023-24

## STUDENTS

**PhD**

- Sourajit Saha

Ph.D. CS [current], UMBC

**MS Thesis**

- Neel Patel

M.S. CS [current], UMBC

**PhD (as Committee Member)**

- Mark Jarzynski (advisor: Marc Olano)
- Maitreya Patel (advisor: Yezhou Yang)
- Agneet Chatterjee (advisor: Yezhou Yang)
- Sheng Cheng (advisor: Yezhou Yang)

Ph.D. CS [current], UMBC

Ph.D. CS [current], ASU

Ph.D. CS [current], ASU

Ph.D. CS [current], ASU

**MS Thesis (as Committee Member)**

- Naoma Angela Tack (advisor: Don Engel)

M.S. CS 2024, UMBC

**Undergraduate**

- UMBC CWIT Scholar: Danielle Burton

B.S. CS [current], UMBC

**MS (Thesis) Mentees (before UMBC)**

- Maitreya Patel (see publication [C6])
- Abhishek Chaudhary (see publication [C7])

M.S. CS 2022, ASU [thesis]

M.S. CS 2021, ASU [thesis]

**Undergraduate Mentees (before UMBC)**

- ASU FURI Program: Mertay Dayanc B.S CS, 2020
- ASU Capstone Project: Paul Butler, Jace Lord, Aashwin Ranjan, Sagarika Pannase, William Tith AY 2019-20

## PRESENTATIONS

(Invited Talk), AAAI New Faculty Highlights 02/2024

*“Towards Robust Visual Understanding: from Recognition to Reasoning”* [website]

(Lightning Talk), IARPA Video-LINCS Proposers Day 02/2024

*“Robust Visual Understanding: Knowledge-Guided and Multimodal Reasoning”*

(Tutorial), Winter Conference on Applications of Computer Vision 01/2024

*“Challenges with Evaluation of Text-to-Image Models”* [website]

(Invited Talk), PRG Seminar, UMIACS (University of Maryland) 11/2023

*“Robust Visual Understanding in the Multimodal Era”*(Invited Talk) *“Towards Reliable Semantic Vision”* Spring 2023

- Temple University, 04/2023
- Colorado School of Mines, 03/2023
- Case Western Reserve University, 03/2023
- Indiana University, 03/2023
- University of Maryland Baltimore County, 03/2023
- Binghamton University, 03/2023
- Rochester Institute of Technology, 02/2023

(Tutorial), Winter Conference on Applications of Computer Vision 01/2023



	<i>"Semantic Data Engineering for Robustness Under Multimodal Settings"</i> <a href="#">[website]</a>	
	(Invited Talk) University of Illinois at Chicago <i>"Robust Semantic Vision"</i>	10/2022
	(Invited Talk) Microsoft Research <i>"Benchmarking Spatial Relationships in Text-to-Image Generation"</i>	10/2022
	(Doctoral Consortium) CVPR, New Orleans <i>"Discovering Transformations for Generalization in Semantic Vision"</i>	06/2022
	(Guest Lecture) Arizona State University CSE 598 <i>"Introduction to Generalization in Semantic Vision"</i>	03/2022
	(Invited Talk) Arizona State University ML Club <i>"Robust Visual Understanding"</i>	09/2021
	(Doctoral Consortium), IJCAI, Macao <i>"Vision Beyond Pixels"</i>	08/2019
	(Tutorial) Telluride Neuromorphic Cognition Engineering Workshop, <i>"Reasoning about Objects and Actions via Block-Play"</i>	07/2019
	(Invited) Birla Institute of Technology and Science (BITS Pilani) <i>"Deep Learning Methods in Imaging and Computer Vision"</i>	04/2018
MEDIA	<a href="#">Frontiers of multimodal learning: A responsible AI approach</a> Microsoft Research Blog	2023
ACADEMIC SERVICE	<b>Area Chair:</b> <ul style="list-style-type: none"> <li>Advances in Neural Information Processing Systems (NeurIPS)</li> <li>Association for Computational Linguistics (ACL) Rolling Review</li> <li>North American Chapter of the ACL (NAACL)</li> </ul>	2024 2024 2024
	<b>Reviewer / Program Committee:</b> <ul style="list-style-type: none"> <li>Conference on Language Models (COLM)</li> <li>Conference on Computer Vision and Pattern Recognition (CVPR)</li> <li>International Conference on Computer Vision (ICCV)</li> <li>International Conference on Machine Learning (ICML)</li> <li>Advances in Neural Information Processing Systems (NeurIPS)</li> <li>International Conference on Learning Representations (ICLR)</li> <li>AAAI Conference on Artificial Intelligence (AAAI)</li> <li>European Conference on Computer Vision (ECCV)</li> <li>Association for Computational Linguistics (ACL)</li> <li>Empirical Methods in Natural Language Processing (EMNLP)</li> <li>North American Chapter of the ACL (NAACL)</li> <li>Winter Conference on Applications of Computer Vision (WACV)</li> <li>International Conference on Robotics and Automation (ICRA)</li> <li>International Conference on Intelligent Robots and Systems (IROS)</li> <li>IEEE Robotics and Automation Letter (RA-L)</li> <li>IEEE Transactions of Pattern Analysis and Machine Intelligence (T-PAMI)</li> <li>Springer Machine Vision and Applications (MVAP)</li> </ul>	2024 2023-24 2023 2023-24 2022-23 2022-24 2021-24 2022-24 2021-24 2021-23 2021-23 2021-24 2019-2023 2022 2020-24 2024 2020

**Award Committee:**

- Best Student Abstract Award Committee, AAAI 2024

**Leadership:**

- Organizer, Tutorial on Responsibly Building Generative Models ECCV 2024
- Mentor, Undergraduate Student Consortium (AAAI-UC) AAAI 2024
- Organizer, Tutorial on Reliability of Generative Models in Vision [\[Website\]](#) WACV'24
- Organizer, Workshop on Open-Domain Reasoning under Multi-Modal Settings (ODRUM), [\[Website\]](#) [\[YouTube\]](#) CVPR'23
- Organizer, Workshop on Open-Domain Retrieval under Multi-Modal Settings (ODRUM), [\[Website\]](#) [\[YouTube\]](#) CVPR'22
- Organizer, Tutorial on Semantic Data Engineering under Multimodal Settings (SERUM) [\[Website\]](#) WACV'23
- Organizer, 2021 Frontiers of V&L Seminar Series, [\[Website\]](#), [\[YouTube\]](#) ASU

UNIVERSITY  
SERVICE**University Service (at UMBC):**

- Course Development, CMSC 491/691: Robust Machine Learning
- Course Development, CMSC 491/691: Computer Vision [\[Website\]](#)
- PPR Seminar: Advances in Perception, Prediction, and Reasoning [\[Website\]](#)
- CSEE Lightning Talks and Open House Fall 2023
- Graduate Admissions Committee AY 2023-24
- Department Publicity Committee AY 2023-24
- Faculty Mentor, Center for Women in Technology AY 2023-24
- Undergraduate Student Advisor AY 2023-24

**University Service (at ASU):**

- Founder, Summer Vision Reading Group, [\[Website\]](#)
- Course Development, CSE591: Frontier Topics in Vision & Language [\[YouTube\]](#)  
[\[website\]](#) Spring 2021, ASU
- Volunteer, 2019 Southwest Robotics Symposium, Tempe AZ
- Volunteer, International Conference on Machine Learning 2020, Virtual
- Advisor, ASU Machine Learning Club, ASU
- Award Reviewer, GPSA Teaching Award Reviewer ASU
- Mentor, Graduate Student Mentorship Program, ASU
- Project Mentor, CSE598 - Perception in Robotics, ASU Spring 2022
- Project Mentor, CSE576 - Natural Language Processing, ASU Fall 2018

## AWARDS

- [Research Excellence Award](#), ASU GPSA 2022
- [Outstanding Mentor Award](#), ASU GPSA 2022
- NeurIPS [Top Reviewer](#) NeurIPS 2022
- CVPR 2022 [Doctoral Consortium](#) CVPR 2022
- ICLR [Best Reviewer](#) ICLR 2022
- SCAI Doctoral Fellowship (ASU), 2022, 2021, 2020
- Engineering Graduate Fellowship, (ASU Engineering) 2023, 2020
- ASU GPSA Travel Award for WACV 2023
- Graduate College Travel Award (declined) WACV'23, CVPR'22
- Graduate College Travel Award (accepted) ICCV'21, EMNLP'20, ECCV'20
- IJCAI 2019 [Doctoral Consortium](#) IJCAI 2019



Inducted, IEEE Eta Kappa Nu, Sigma Chapter  
National Talent Scholarship, National Council of Educational Research and Training  
(Govt. of India)

CMU, 2017  
2007–2015

REFERENCES Available upon request