

Tejas Gokhale

CONTACT	Email: gokhale@umbc.edu Website: https://www.tejasgokhale.com Mail: 1000 Hilltop Circle, ITE 214, Baltimore MD 21250	
APPOINTMENT	Assistant Professor Department of Computer Science & Electrical Engineering University of Maryland, Baltimore County Affiliated Faculty, UMBC AI Center	
RESEARCH AREA	Robust computing for perception, communication, learning, and reasoning. Computer Vision, Machine Learning, Reliable AI, Multimodal Learning	
EDUCATION	Doctor of Philosophy , Arizona State University School of Computing and Augmented Intelligence <i>Advisors:</i> Yezhou Yang , Chitta Baral <i>Thesis:</i> Towards Reliable Semantic Vision	2023
	Master of Science , Carnegie Mellon University Department of Electrical and Computer Engineering <i>Mentor:</i> Aswin Sankaranarayanan	2017
	Bachelor of Engineering (Honours) , BITS Pilani Department of Electrical and Electronics Engineering	2015
EMPLOYMENT HISTORY	Microsoft Research Research Intern, Adaptive Systems and Interaction Group <i>Mentors:</i> Hamid Palangi , Besa Nushi , Vibhav Vineet , Eric Horvitz	Summer 2022
	Lawrence Livermore National Laboratory Research Scholar, Machine Intelligence Group <i>Mentors:</i> Rushil Anirudh , Jay Thiagarajan , Bhavya Kailkhura	Summer 2021, 2020
	Arizona State University Graduate Research Associate, School of Computing and AI Graduate Teaching Associate, School of Computing and AI	2018–2023 2018–2020
	Snap Research Research Intern, Computational Imaging Group <i>Mentors:</i> Guru Krishnan , Shree Nayar	Summer 2018
	Carnegie Mellon University Graduate Student Researcher, Dept. of Electrical and Computer Engineering	2017–2018
	ST Microelectronics Intern, High Speed Links Group	Fall 2014
	Steel Authority of India Limited Summer Intern, Bhilai Steel Plant	Summer 2013

Conference Proceedings

- [C1] Sourajit Saha, Tejas Gokhale. Improving Shift Invariance in Convolutional Neural Networks with Translation Invariant Polyphase Sampling. In Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision. 2025.
<https://arxiv.org/abs/2404.07410> WACV 2025
- [C2] Maitreya Patel, Abhiram Kusumba, Sheng Cheng, Changhoon Kim, Tejas Gokhale, Chitta Baral, Yezhou Yang. TripletCLIP: Improving Compositional Reasoning of CLIP via Vision-Language Negatives. In Advances in Neural Information Processing Systems. 2024.
<https://arxiv.org/abs/2411.02545> NeurIPS 2024
- [C3] Agneet Chatterjee, 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. In European conference on computer vision. 2024.
<https://arxiv.org/abs/2404.01197> ECCV 2024
- [C4] Agneet Chatterjee, Yiran Luo, Tejas Gokhale, Chitta Baral, Yezhou Yang. REVISION: Rendering Tools Enable Spatial Fidelity in Vision-Language Models. In European conference on computer vision. 2024.
<https://arxiv.org/abs/2408.02231> ECCV 2024
- [C5] Agneet Chatterjee, 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, pp. 2794-2803. 2024.
<https://arxiv.org/abs/2404.08540> CVPR 2024
- [C6] Maitreya Patel, 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
- [C7] 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
- [C8] 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
- [C9] 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
- [C10] Maitreya Patel, Tejas Gokhale, Chitta Baral, and Yezhou Yang. 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
- [C11] Tejas Gokhale, Abhishek Chaudhary, Pratyay Banerjee, Chitta Baral, and Yezhou Yang. 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
- [C12] Tejas Gokhale, Swaroop Mishra, Man Luo, Bhavdeep Sachdeva, and Chitta Baral. 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
- [C13] Neeraj Varshney, Pratyay Banerjee, Tejas Gokhale, and Chitta Baral. 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
- [C14] Yiran Luo, Pratyay Banerjee, Tejas Gokhale, Yezhou Yang, and Chitta Baral. 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. 2022.
<https://arxiv.org/abs/2203.16682> ACL 2022
- [C15] 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
- [C16] 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
- [C17] Pratyay Banerjee, Tejas Gokhale, Yezhou Yang, and Chitta Baral. 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
- [C18] Pratyay Banerjee, Tejas Gokhale, and Chitta Baral. 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
- [C19] 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
- [C20] Tejas Gokhale, Pratyay Banerjee*, Chitta Baral, and Yezhou Yang. 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

- [C21] Zhiyuan Fang, Tejas Gokhale, Pratyay Banerjee, Chitta Baral, and Yezhou Yang. 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
- [C22] 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

Journals and Magazines

- [J1] Tejas Gokhale. Towards Robust Visual Understanding: A Paradigm Shift in Computer Vision from Recognition to Reasoning. AI Magazine 1–7. 2024.
<https://doi.org/10.1002/aaai.12194> AI Magazine

Peer Reviewed Workshop Papers and Extended Abstracts

- [W1] Yiran Luo, Joshua Feinglass, Tejas Gokhale, Kuan-Cheng Lee, 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.
<https://arxiv.org/abs/2405.15961> CVPR 2024 Vision Datasets Understanding Workshop
- [W2] Tejas Gokhale. Towards Robust Visual Understanding: from Recognition to Reasoning. 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] 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
- [W4] 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
- [W5] 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
- [W6] 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] Maitreya Patel, Neeraj Varshney, Agneet Chatterjee, Tejas Gokhale, Yezhou Yang, Chitta Baral. Reliability-Checklist: Framework for Comprehensively Evaluating the Reliability of NLP Systems.
<https://github.com/Maitreyapatel/reliability-checklist> Tech Report

- [P2] 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. 2022. <https://arxiv.org/abs/2212.10015> Tech Report
- [P3] Ethan Wisdom, Tejas Gokhale, Chaowei Xiao, and Yezhou Yang. Mole Recruitment: Poisoning of Image Classifiers via Selective Batch Sampling. <https://arxiv.org/abs/2303.17080> Tech Report

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. [\[website\]](#)

Chapters:

- Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. "Transformer-Driven Models for Language, Vision, and Multimodality." In *Advances in Multimodal Information Retrieval and Generation*, pp. 11-34. Cham: Springer International Publishing, 2024.
- Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. "Multimodal Information Retrieval." In *Advances in Multimodal Information Retrieval and Generation*, pp. 35-91. Cham: Springer International Publishing, 2024.
- Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. "Multimodal Content Generation." In *Advances in Multimodal Information Retrieval and Generation*, pp. 93-134. Cham: Springer International Publishing, 2024.
- Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. "Retrieval Augmented Modeling." In *Advances in Multimodal Information Retrieval and Generation*, pp. 135-157. Cham: Springer International Publishing, 2024.

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 475/675 Neural Networks [website]	Spring 2025
	CMSC 491/691 Robust Machine Learning [website]	Fall 2024
	CMSC 491/691 Computer Vision [website]	Spring 2024, Fall 2023
	CMSC 898 Pre-Doctoral Candidacy Research	Spring 2025, Fall 2024, Spring 2024
	CMSC 799 Master's Thesis Research	Spring 2025, Fall 2024
	CMSC 699 Independent Study	Spring 2025, Fall 2024, Spring 2024, Fall 2023
	Graduate Teaching Associate , 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	DARPA SciFy (Scientific Feasibility) Program. “Modular Reasoning using Hybrid Inferential Formalisms”	(\$3.8M) 2024-27
	UMBC Cybersecurity Institute. Cybersecurity Graduate Fellows Program	(\$45K) 2025
	UMBC Strategic Awards for Research Transitions (START) “A Framework for Quantifying Typicality of AI-Generated Images”	(\$25K) 2024-25
	Maryland Procurement Office (via Johns Hopkins University) “Modular Natural Language Understanding”	(~\$27K) 2024
	UMBC Summer Research Faculty Fellowship (SURFF) “Improving the Continual Learning Ability of Visual Recognition Systems via Targeted Unlearning”	(\$8K) 2024
	Microsoft Research Accelerate Foundation Models Academic Research Cloud Computing and OpenAI Credits	(\$20K) 2024
	Google Cloud Education Credits	(~\$2.5K) 2023-24
STUDENTS	PhD	
	• Sourajit Saha	Ph.D. CS [current], UMBC
	• Zhiwei Zhang	Ph.D. CS [current], UMBC
	• Shivanand Kundargi	Ph.D. CS [current], UMBC
	• Jordan Turley	Ph.D. CS [current], UMBC
	• Dylan Lang	Ph.D. CS [current], UMBC
	MS Thesis	
	• Neel Patel	M.S. CS [current], UMBC
	PhD (as Committee Member)	
	• Mark Jarzynski (advisor: Marc Olano)	Ph.D. CS [current], UMBC
	• Sheng Cheng (advisor: Yezhou Yang)	Ph.D. CS [current], ASU
	• Maitreya Patel (advisor: Yezhou Yang & Chitta Baral)	Ph.D. CS [current], ASU
	• Agneet Chatterjee (advisor: Yezhou Yang & Chitta Baral)	Ph.D. CS [current], ASU
	MS Thesis (as Committee Member)	
	• Naomi Angela Tack (advisor: Don Engel)	M.S. CS 2024, UMBC
	Undergraduate	
	• UMBC CWIT Scholar: Chloe Wood	2024-25
	• UMBC CWIT Scholar: Danielle Burton	2023-24

MS (Thesis) Mentees (before UMBC)

- Maitreya Patel (see publication [\[C10\]](#)) M.S. CS 2022, ASU [\[thesis\]](#)
- Abhishek Chaudhary (see publication [\[C11\]](#)) M.S. CS 2021, ASU [\[thesis\]](#)

Undergraduate Mentees (before UMBC)

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

PRESENTATIONS	(Invited Talk), UMBC Information Systems Seminar “ <i>Cognitive Vision: Concepts, Contexts, and Semantics</i> ”	11/2024
	(Tutorial), European Conference on Computer Vision “ <i>Evaluation and Benchmarking for Text-to-Image Models</i> ”	10/2024
	(Lightning Talk), IARPA Video-LINCS Proposers Day “ <i>Robust Visual Understanding: Knowledge-Guided and Multimodal Reasoning</i> ”	02/2024
	(Tutorial), Winter Conference on Applications of Computer Vision “ <i>Challenges with Evaluation of Text-to-Image Models</i> ”	01/2024 [website]
	(Invited Talk), PRG Seminar, UMIACS (University of Maryland) “ <i>Robust Visual Understanding in the Multimodal Era</i> ”	11/2023
	(Invited Talk) “ <i>Towards Reliable Semantic Vision</i> ” Rochester Institute of Technology (02/23), Binghamton University (03/23), University of Maryland Baltimore County (03/23), Indiana University (03/23), Case Western Reserve University (03/23), Colorado School of Mines (03/23), Temple University (04/2023)	Spring 2023
	(Tutorial), Winter Conference on Applications of Computer Vision “ <i>Semantic Data Engineering for Robustness Under Multimodal Settings</i> ”	01/2023 [website]
	(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	Alum inspires next generation of computer vision researchers ASU Full Circle	10/2024
	Frontiers of multimodal learning: A responsible AI approach Microsoft Research Blog	09/2023
	CASC research in ML robustness debuts at AAAI conference News and Press, LLNL Computing	02/2021
	HuggingFace and Intel release a solution for high-fidelity text and image consistency NetEase (163.com), China	04/2024
ACADEMIC SERVICE	National Science Foundation , Reviewer	2025
	Area Chair:	
	• Winter Applications of Computer Vision (WACV)	2025
	• Advances in Neural Information Processing Systems (NeurIPS)	2024
	• Association for Computational Linguistics (ACL) Rolling Review	2024
	• North American Chapter of the ACL (NAACL)	2024
	• Empirical Methods in Natural Language Processing (EMNLP)	2024
	Reviewer / Program Committee:	
	• Conference on Computer Vision and Pattern Recognition (CVPR)	2023-25
	• International Conference on Computer Vision (ICCV)	2023
	• European Conference on Computer Vision (ECCV)	2022-24
	• Winter Conference on Applications of Computer Vision (WACV)	2021-24
	• International Conference on Machine Learning (ICML)	2023-24
	• Advances in Neural Information Processing Systems (NeurIPS)	2022-24
	• International Conference on Learning Representations (ICLR)	2022-25
	• AAAI Conference on Artificial Intelligence (AAAI)	2021-24
	• Conference on Language Models (COLM)	2024
	• Association for Computational Linguistics (ACL)	2021-24
	• Empirical Methods in Natural Language Processing (EMNLP)	2021-23
	• North American Chapter of the ACL (NAACL)	2021-23
	• International Conference on Robotics and Automation (ICRA)	2019-2023
	• International Conference on Intelligent Robots and Systems (IROS)	2022
	• IEEE Robotics and Automation Letter (RA-L)	2020-24
	• IEEE Transactions of Pattern Analysis and Machine Intelligence (T-PAMI)	2024-25
	• ACM Transactions of Computing for Healthcare	2024
	• ACM Computing Surveys	2024
	• Springer Machine Vision and Applications (MVAP)	2020
	• Springer Book Proposals Reviewer	2024

Leadership:

- Team Lead, Summer Camp for Applied Language Exploration (SCALE) 2024, JHU Human Language Technology Center of Excellence [\[Website\]](#) Summer 2024
- Organizer, Tutorial on Responsibly Building Generative Models [\[Website\]](#) ECCV'24
- Mentor, Undergraduate Student Consortium (AAAI-UC) AAAI 2024
- Best Student Abstract Award Committee, 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 475/675: Neural Networks [\[Website\]](#)
- Course Development, CMSC 491/691: Robust Machine Learning [\[Website\]](#)
- Course Development, CMSC 491/691: Computer Vision [\[Website\]](#)
- PPR Seminar: Advances in Perception, Prediction, and Reasoning [\[Website\]](#)
- Graduate Admissions Committee 2023–present
- Department Publicity Committee 2023–present
- Faculty Mentor, Center for Women in Technology 2023–present
- Undergraduate Student Advisor 2023–present
- Faculty Learning Community, UMBC Faculty Development Center 2024–25
- Faculty Mentor, UMBC IEEE + Tau Beta Pi Open Lab Fall 2024
- CSEE Lightning Talks and Open House Fall 2023, Fall 2024
- Reviewer, CSEE Research Day Spring 2024
- Reviewer, COEIT Cybersecurity Research and Education Proposals Fall 2024
- Member, Asian and Asian American Faculty Staff Council 2023–present

University Service (at ASU):

- Founder, Summer Vision Reading Group, ASU [\[Website\]](#)
- 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
- Founding 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

- CVPR 2024 VDU Workshop, Best Paper Award 2024
- [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	CMU, 2017
National Talent Scholarship, National Council of Educational Research and Training (Govt. of India)	2007–2015

REFERENCES Available upon request