

Tejas Gokhale

CONTACT	Email: gokhale@umbc.edu Website: https://www.tejasgokhale.com Mail: 1000 Hilltop Circle, ITE 214, Baltimore MD 21250	
CURRENT POSITION	Assistant Professor Department of Computer Science & Electrical Engineering University of Maryland, Baltimore County Affiliated Faculty, UMBC AI Center Director , Cognitive Vision Group	
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

PUBLICATIONS See my [Google Scholar](#) page for recent updates and citation information.
Legend: My graduate advisees are underlined.
Conference proceedings are the de facto form of publication in computer vision, machine learning, natural language processing, and AI.

Conference Proceedings

- [C1] Nilay Yilmaz, Maitreya Patel, Yiran Lawrence Luo, Tejas Gokhale, Chitta Baral, Suren Jayasuriya, Yezhou Yang. Voila: Evaluation of MLLMs For Perceptual Understanding and Analogical Reasoning. In International Conference on Learning Representations. 2025.
<https://arxiv.org/abs/2503.00043> ICLR 2025
- [C2] 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
- [C3] 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
- [C4] 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
- [C5] 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
- [C6] 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
- [C7] 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
- [C8] 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
- [C9] 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
- [C10] 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
- [C11] 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
- [C12] 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
- [C13] 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
- [C14] 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
- [C15] 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
- [C16] 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
- [C17] 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
- [C18] 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
- [C19] 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
- [C20] 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

- [C21] 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
- [C22] 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
- [C23] 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] Shivanand Kundargi, Kowshik Thopalli, Tejas Gokhale. Sequentially Acquiring Concept Knowledge to Guide Continual Learning. Second Workshop on Visual Concepts. CVPR 2025
<https://openreview.net/pdf?id=U4vcWks22t> CVPR 2025 Workshop on Visual Concepts
- [W2] 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
- [W3] 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
- [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] Shaswati Saha, Sourajit Saha, Manas Gaur, Tejas Gokhale. Side Effects of Erasing Concepts from Diffusion Models. preprint
- [P2] Naresh Kumar Devulapally, Shruti Agarwal, Tejas Gokhale, Vishnu Suresh Lokhande. Latent Diffusion Unlearning: Protecting against Unauthorized Personalization through Trajectory Shifted Perturbations. preprint
- [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
- [P4] 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
- [P5] 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

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* [\[url\]](#) (US Patent App. 18/198,593)

[IP2] *Systems, Methods, and Apparatuses for Implementing Improved Diversity using Adversarially Learned Transformations for Domain Generalization* [\[url\]](#) (US Patent App. 63/468,653)

FUNDING	DARPA SciFy (Scientific Feasibility) Program.	(\$3.8M)
	<i>“Modular Reasoning using Hybrid Inferential Formalisms”</i>	2024-27
	UMBC Center & Institute Departmentally-Engaged Research (CIDER).	(\$50K)
	<i>“Identification of Virga Precipitation Events”</i>	2025-26
	UMBC Cybersecurity Institute.	(\$45K)
	<i>Cybersecurity Graduate Fellows Program</i>	2025
	UMBC Strategic Awards for Research Transitions (START)	(\$25K)
	<i>“A Framework for Quantifying Typicality of AI-Generated Images”</i>	2024-25
	Maryland Procurement Office (via Johns Hopkins University)	(~\$29K)
	<i>“Modular Natural Language Understanding” (PI: Frank Ferraro)</i>	2024
TEACHING	UMBC Summer Research Faculty Fellowship (SURFF)	(\$8K)
	<i>“Improving the Continual Learning Ability of Visual Recognition Systems via Targeted Unlearning”</i>	2024
	Microsoft Research Accelerate Foundation Models Academic Research	(\$20K)
	<i>Cloud Computing and OpenAI Credits</i>	2024
	Google Cloud	(~\$2.5K)
	<i>Education Credits</i>	2023-24
	Instructor , UMBC	
	CMSC 472/672 Computer Vision [website]	Fall 2025
	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
	CMSC 499 Independent Study	Spring 2025
	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	
PRESENTATIONS	CSE598, Perception in Robotics	Spring 2022
	CSE408, Multimedia Information Systems	Spring 2019
	Student Instructor , BITS Pilani Goa Campus	
	CTE: Advanced Image Processing	Spring 2015
	(Invited Talk), UMBC COEIT Research Day	04/2025
	<i>“Cognitive Vision: Concepts, Contexts, and Semantics”</i>	
	(Invited Talk), UMBC Information Systems Seminar	11/2024
	<i>“Cognitive Vision: Concepts, Contexts, and Semantics”</i>	

(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 [website]
(Invited) Birla Institute of Technology and Science (BITS Pilani) “ <i>Deep Learning Methods in Imaging and Computer Vision</i> ”	04/2018

STUDENTS

PhD

• Sourajit Saha	(M.S. UMBC)	Ph.D. CS [current], UMBC <i>WACV 2025 Broadening Participation Scholarship, GSA Professional Development Grant</i>
• Ziwei Zhang	(M.S. USTC, China)	Ph.D. CS [current], UMBC
• Shivanand Kundargi	(B.S. KLE, India)	Ph.D. CS [current], UMBC <i>UMBC Cyber Graduate Fellow 2025, LLNL DSI Graduate Student Intern 2025</i>
• Naren Sivakumar	(M.S. UMBC)	Ph.D. CS [current], UMBC
• Sunny Bhati	(M.S. Indiana)	Ph.D. CS [current], UMBC
• Jordan Turley	(M.S. Harvard)	Ph.D. CS [current], UMBC
• Dylan Lang	(M.S. ASU)	Ph.D. CS [current], UMBC

PhD (as Committee Member)

- Sheng Cheng (advisor: Yezhou Yang) Ph.D. CS 2025, ASU [\[dissertation\]](#)
- Mark Jarzynski (advisor: Marc Olano) Ph.D. CS [current], UMBC
- Yiran Luo (advisor: Chitta Baral and Yezhou Yang) Ph.D. CS [current], ASU

MS Thesis (as Committee Member)

- Naomi Angela Tack (advisor: Don Engel) M.S. CS 2024, UMBC

Other MS/PhD

- Independent Study: Neel Patel Spring 2025, Fall 2024
- Independent Study: Shaswati Saha Ph.D. CS [current], UMBC
- Independent Study: Varun Magotra Spring 2024

Undergraduate

- Independent Study: Nicholas Harrell Spring 2025
- Independent Study: Alexander Shaner Spring 2025
- Visitors: Tete Wilson, Dhanush Bharadwaj 2024-2025
- Visitors: Joey Mule, Luke Parrish 2023-2024
- UMBC CWIT Scholar: Chloe Wood 2024-25
- UMBC CWIT Scholar: Danielle Burton 2023-24

Ph.D. Mentees (at ASU)

- Maitreya Patel Ph.D. CS [current], ASU
- Agneet Chatterjee Ph.D. CS [current], ASU
- Nilay Yilmaz Ph.D. CS [current], ASU

MS (Thesis) Mentees (at ASU)

- Maitreya Patel (see publication [\[C11\]](#)) M.S. CS 2022, ASU [\[thesis\]](#)
- Abhishek Chaudhary (see publication [\[C12\]](#)) M.S. CS 2021, ASU [\[thesis\]](#)

Undergraduate Mentees (at ASU)

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

ACADEMIC SERVICE

National Science Foundation

- Reviewer, GRFP 2025
- Panel, IIS/III 2025

Tutorial Chair, International Conference on Computer Vision (ICCV) 2025

Area Chair / Action Editor

- International Conference on Computer Vision (ICCV) 2025
- Advances in Neural Information Processing Systems (NeurIPS) 2024-25
- Winter Applications of Computer Vision (WACV) 2025
- Association for Computational Linguistics (ACL) 2024
- North American Chapter of the ACL (NAACL) 2024
- Empirical Methods in Natural Language Processing (EMNLP) 2024

Session Chair

- Winter Applications of Computer Vision (WACV) 2025

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) 2023-25
- 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
- ACM Multimedia 2025
- 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
- Mentor, Undergraduate Student Consortium (AAAI-UC) AAAI 2024
- Best Student Abstract Award Committee, AAAI 2024

Leadership:

- Director, Cognitive Vision Group UMBC
- 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
- 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

Misc:

- Lead Vocalist, CVPR House Band 2024, 2025

UNIVERSITY SERVICE	University Service (at UMBC):	
	<ul style="list-style-type: none"> • UMBC HPCF Governance, Subcommittee for CHIP-GPU 2025-present • Course Development, CMSC 475/675: Neural Networks [Website] • Course Development, CMSC 491/691: Robust Machine Learning [Website] • Course Development, CMSC 472/672: Computer Vision [Website] • Regular Graduate Course Proposal, CMSC 672: Computer Vision Approved • Regular Undergraduate Course Proposal, CMSC 472: Computer Vision Approved • 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 • Faculty Volunteer, COEIT Ph.D. Open House 2025, 2024 • CSEE Lightning Talks and Open House Fall 2023, Fall 2024 • Reviewer, CSEE Research Day Spring 2024 • Reviewer, UMBC ORCA Internal Grants 2025 • Reviewer, COEIT Student Summer Projects Summer 2025 • Reviewer, COEIT Cybersecurity Research and Education Proposals Fall 2024 • Interviewer, CSEE Faculty Candidates 2024, 2025 • Interviewer, COEIT Staff Searches 2025 • Member, Asian and Asian American Faculty Staff Council 2023–present 	
	University Service (at ASU):	
	<ul style="list-style-type: none"> • 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

MEDIA

[UMBC team leads research into AI tools that can assess the feasibility of scientific claims](#)
UMBC News 04/2025

[Alum inspires next generation of computer vision researchers](#)
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