Tejas Gokhale

Assistant Professor, Computer Science and Electrical Engineering Director, Cognitive Vision Group

University of Maryland, Baltimore County

(Last Updated: 2025/10/02)

2018-2023

Education

Arizona State University

Doctor of Philosophy (Ph.D.), Computer Engineering Advisors: Yezhou Yang, Chitta Baral Thesis: Towards Reliable Semantic Vision	2010 2020
Carnegie Mellon University Master of Science, Electrical and Computer Engineering Advisor: Aswin Sankaranarayanan	2016–2017
Birla Institute of Technology and Science, Pilani Bachelor of Engineering (Honours), Electronics and Instrumentation Engineering	2011–2015
Employment	
Microsoft Research Research Intern, Adaptive Systems and Interaction Group Mentors: Hamid Palangi, Besa Nushi, Vibhav Vineet, Eric Horvitz	Summer 2022
Lawrence Livermore National Laboratory Research Scholar, Machine Intelligence Group Mentors: 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 Mentors: 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. Citations: 1007, h-index: 18 Legend: My graduate advisees are underlined.

Peer-Reviewed Conference Proceedings

- [C25] Shaswati Saha, Sourajit Saha, Manas Gaur, Tejas Gokhale. Side Effects of Erasing Concepts from Diffusion Models. In Findings of the Association for Computational Linguistics: EMNLP 2025 https://arxiv.org/abs/2508.15124
 EMNLP Findings 2025
- [C24] Naresh Kumar Devulapally, Shruti Agarwal, Tejas Gokhale, Vishnu Suresh Lokhande. Latent Diffusion Unlearning: Protecting against Unauthorized Personalization through Trajectory Shifted Perturbations. In Proceedings of the 33rd ACM International Conference on Multimedia, MM 2025 to-appear
 ACM Multimedia 2025
- [C23] Nilay Yilmaz, Maitreya Patel, Yiran Lawrence Luo, Tejas Gokhale, Chitta Baral, Suren Jayasuriya, and Yezhou Yang. VOILA: Evaluation of MLLMs for perceptual understanding and analogical reasoning. In The Thirteenth International Conference on Learning Representations, 2025 https://arxiv.org/abs/2503.00043
 ICLR 2025
- [C22] Sourajit Saha and Tejas Gokhale. Improving shift invariance in convolutional neural networks with translation invariant polyphase sampling. In 2025 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), pages 620–629. IEEE, 2025 https://arxiv.org/abs/2404.07410
 WACV 2025
- [C21] Maitreya Patel, Naga Sai Abhiram Kusumba, Sheng Cheng, Changhoon Kim, Tejas Gokhale, Chitta Baral, et al. Tripletclip: Improving compositional reasoning of clip via synthetic vision-language negatives. Advances in neural information processing systems, 37:32731–32760, 2024 https://arxiv.org/abs/2411.02545
 NeurIPS 2024
- [C20] Agneet Chatterjee, Gabriela Ben Melech Stan, Estelle Aflalo, Sayak Paul, Dhruba Ghosh, Tejas Gokhale, Ludwig Schmidt, Hannaneh Hajishirzi, Vasudev Lal, Chitta Baral, et al. Getting it right: Improving spatial consistency in text-to-image models. In European Conference on Computer Vision, pages 204–222. Springer Nature Switzerland Cham, 2024 https://arxiv.org/abs/2404.01197
 ECCV 2024
- [C19] Agneet Chatterjee, Yiran Luo, Tejas Gokhale, Yezhou Yang, and Chitta Baral. Revision: Rendering tools enable spatial fidelity in vision-language models. In European Conference on Computer Vision, pages 339–357. Springer Nature Switzerland Cham, 2024 https://arxiv.org/abs/2408.02231
 ECCV 2024
- [C18] Agneet Chatterjee, Tejas Gokhale, Chitta Baral, and 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, pages 2794–2803, 2024 https://arxiv.org/abs/2404.08540
 CVPR 2024
- [C17] Maitreya Patel, Tejas Gokhale, Chitta Baral, and Yezhou Yang. Conceptbed: Evaluating concept learning abilities of text-to-image diffusion models. In Proceedings of the AAAI Conference on Artificial Intelligence, volume 38, pages 14554–14562, 2024 https://arxiv.org/abs/2306.04695
 AAAI 2024
- [C16] Sheng Cheng, Tejas Gokhale, and Yezhou Yang. Adversarial bayesian augmentation for single-source domain generalization. In Proceedings of the IEEE/CVF International Conference on Computer Vision, pages 11400–11410, 2023 https://arxiv.org/abs/2307.09520
 ICCV 2023

[C15] Man Luo, Zhiyuan Fang, Tejas Gokhale, Yezhou Yang, and Chitta Baral. End-to-end knowledge retrieval with multi-modal queries. In 61st Annual Meeting of the Association for Computational Linguistics, pages 8573–8589. Association for Computational Linguistics (ACL), 2023 https://arxiv.org/abs/2306.00424 ACL 2023

[C14] 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, pages 434–443, 2023

https://arxiv.org/abs/2206.07736

WACV 2023

[C13] 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, pages 9856–9870. Association for Computational Linguistics, 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. Findings of the Association for Computational Linguistics: ACL 2022, pages 1493–1513, 2021

https://arxiv.org/abs/2110.07165

ACL Findings 2022

[C11] Tejas Gokhale, Swaroop Mishra, Man Luo, Bhavdeep Singh Sachdeva, and Chitta Baral. Generalized but not robust? comparing the effects of data modification methods on out-of-domain generalization and adversarial robustness. Findings of the Association for Computational Linguistics: ACL 2022, pages 2705–2718, 2022

https://arxiv.org/abs/2203.07653

ACL Findings 2022

[C10] Neeraj Varshney, Pratyay Banerjee, Tejas Gokhale, and Chitta Baral. Unsupervised natural language inference using phl triplet generation. Findings of the Association for Computational Linguistics: ACL 2022, pages 2003–2016, 2021

https://arxiv.org/abs/2110.08438

ACL Findings 2022

[C9] Yiran Luo, Pratyay Banerjee, Tejas Gokhale, Yezhou Yang, and Chitta Baral. To find waldo you need contextual cues: Debiasing who's waldo. In Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers), pages 355–361. Association for Computational Linguistics, 2022

https://arxiv.org/abs/2203.16682

ACL 2022

[C8] 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, pages 11038-11046, 2022

https://arxiv.org/abs/2201.07745

AAAI 2022

[C7] 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, pages 1908–1918, 2021 https://arxiv.org/abs/2109.01934

ICCV 2021

[C6] Pratyay Banerjee, Tejas Gokhale, Yezhou Yang, and Chitta Baral. Weaqa: Weak supervision via captions for visual question answering. Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021, pages 3420–3435, 2021

https://arxiv.org/abs/2012.02356

ACL Findings 2021

[C5] 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, pages 1200–1211. Association for Computational Linguistics, 2021

https://arxiv.org/abs/2103.11263

NAACL 2021

- [C4] 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, volume 35, pages 7574–7582, 2021 https://arxiv.org/abs/2012.01806
 AAAI 2021
- [C3] 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)*, pages 878–892. Association for Computational Linguistics, 2020

https://arxiv.org/abs/2009.08566

EMNLP 2020

[C2] Zhiyuan Fang, Tejas Gokhale, Pratyay Banerjee, Chitta Baral, and Yezhou Yang. Video2commonsense: Generating commonsense descriptions to enrich video captioning. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 840–860. Association for Computational Linguistics, 2020

https://arxiv.org/abs/2003.05162

EMNLP 2020

[C1] 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, pages 379–396. Springer, 2020 https://arxiv.org/abs/2002.08325
ECCV 2020

Peer-Reviewed Journals and Magazines

[J1] Tejas Gokhale. Towards robust visual understanding: A paradigm shift in computer vision from recognition to reasoning. AI Magazine, 45(3):429–435, 2024 https://doi.org/10.1002/aaai.12194

AI Magazine

Peer-Reviewed Workshop Papers and Extended Abstracts

- [W6] Yiran Luo, Joshua Feinglass, Tejas Gokhale, Kuan-Cheng Lee, Chitta Baral, and 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, pages 7303-7313, 2024

https://arxiv.org/abs/2405.15961

CVPR 2024 Vision Datasets Understanding Workshop

- [W5] Tejas Gokhale. Towards robust visual understanding: from recognition to reasoning. In Proceedings of the AAAI Conference on Artificial Intelligence, volume 38, pages 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, 2022 https://openreview.net/pdf?id=YkPjTHZDdm NeurIPS 2022 Interpolation Workshop
- [W3] Kuldeep Kulkarni, Tejas Gokhale, Rajhans Singh, Pavan Turaga, and Aswin Sankaranarayanan. Halluci-net: Scene completion by exploiting object co-occurrence relationships. In CVPR Workshop on AI for Content Creation, 2021

https://arxiv.org/abs/2004.08614

CVPR 2021 AI for Content Creation Workshop

- [W2] 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 Conference on Computer Vision and Pattern Recognition Workshops, pages 5-8, 2019 https://arxiv.org/abs/1905.12042
 CVPR 2019 Vision Meets Cognition Workshop
- [W1] Tejas Gokhale. Vision beyond pixels: Visual reasoning via blocksworld abstractions. In *Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence*,, pages 6436–6437, 2019 https://www.ijcai.org/Proceedings/2019/0907.pdf

 IJCAI 2019 Doctoral Consortium

Technical Reports and Preprints

- [P3] Ethan Wisdom, Tejas Gokhale, Chaowei Xiao, and Yezhou Yang. Mole recruitment: Poisoning of image classifiers via selective batch sampling. arXiv preprint arXiv:2303.17080, 2023 https://arxiv.org/abs/2303.17080
 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. arXiv preprint arXiv:2212.10015, 2022 https://arxiv.org/abs/2212.10015
 Tech Report
- [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

Books and Monographs

[B1] Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. Advances in Multimodal Information Retrieval and Generation. Synthesis Lectures on Computer Vision. Springer International Publishing, 2024

https://link.springer.com/book/9783031578151

Chapters:

 Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. Transformer-Driven Models for Language, Vision, and Multimodality, pages 11–34. Springer International Publishing, Cham, 2025

ISBN: 978-3-031-57815-1

- Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. *Multimodal Information Retrieval*, pages 35–91. Springer International Publishing, Cham, 2025
- Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. *Multimodal Content Generation*, pages 93–134. Springer International Publishing, Cham, 2025
- Man Luo, Tejas Gokhale, Neeraj Varshney, Yezhou Yang, and Chitta Baral. Retrieval Augmented Modeling, pages 135–157. Springer International Publishing, Cham, 2025

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

[IP2] Hamid Palangi, Besmira Nushi, Vibhav Vineet, Eric J Horvitz, Semiha E KAMAR EDEN, and Tejas Gokhale. Automated evaluation of spatial relationships in images, June 20 2024. US Patent App. 18/198,593 [url] [IP1] Systems, Methods, and Apparatuses for Implementing Improved Diversity using Adversarially Learned $Transformations\ for\ Domain\ Generalization$ (US Patent App. 63/468,653)

Funding

runding	
DARPA SciFy (Scientific Feasibility) Program. "Modular Reasoning using Hybrid Inferential Formalisms"	(\$3.8M) 2024-27
UMBC Center & Institute Departmentally-Engaged Research (CIDER). "Identification of Virga Precipitation Events"	(\$50K) 2025-26
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" (PI: Frank Ferraro)	$(\sim \$30 \text{K})$
UMBC Summer Research Faculty Fellowship (SURFF) "Improving the Continual Learning Ability of Visual Recognition Systems via Tar	geted Unlearning" (\$8K)
Microsoft Research Accelerate Foundation Models Academic Research Cloud Computing and OpenAI Credits	(\$20K) 2024
Google Cloud Education Credits	$(\sim $2.5K)$ 2023-24
Teaching	

CSE598, Perception in Robotics

reaching	
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	sity
CSE310: Data Structures & Algorithms	Spring 2020
CSE408: Multimedia Information Systems	Spring 2019
CSE110: Introduction to Programming,	Fall 2018
Guest Lecturer, Arizona State University	

Spring 2022

CSE408, Multimedia Information Systems

Spring 2019

Student Instructor, BITS Pilani Goa Campus

CTE: Advanced Image Processing

Spring 2015

Students

Students		
PhD		
– Sourajit Saha	(M.S. UMBC)	Ph.D. CS [current], UMBC
* GSA Professiona	padening Participation Scholarship al Development Grant, 2025 ch Grant Program 2025	
– Ziwei Zhang	(M.S. USTC, China)	Ph.D. CS [current], UMBC
* CSEE Summer	Research Fellowship, 2025	
- Shivanand Kundargi	(B.S. KLE, India)	Ph.D. CS [current], UMBC
* UMBC Cyber G	raduate Fellow 2025	
* LLNL DSI Grad	luate Student Intern 2025	
* CSEE Summer	Research Fellowship, 2025 (declined)	
- Naren Sivakumar	(M.S. UMBC)	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)	
– Agneet Chatterjee (a	advisor: Yezhou Yang and Chitta Baral)	Ph.D. CS [current], ASU
– Maitreya Patel (advi	isor: Yezhou Yang and Chitta Baral)	Ph.D. CS [current], ASU
– Mark Jarzynski (adv	risor: Marc Olano)	Ph.D. CS [current], UMBC
– Yiran Luo (advisor:	Chitta Baral and Yezhou Yang)	Ph.D. CS [current], ASU
- Sheng Cheng (adviso	or: Yezhou Yang)	Ph.D. CS 2025, ASU [dissertation]
MS Thesis (as Com	mittee Member)	
– Naomi Angela Tack	(advisor: Don Engel)	M.S. CS 2024, UMBC
${\bf Other~MS/PhD}$		
- 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: Tetevi 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
Teaching Assistants		
- Yu Liu, CMSC $472/672$ Computer Vision		Fall 2025
- Ziwei Zhang, CMSC $475/675$ Neural Networks		Spring 2025
- Sourajit Saha, CMSC $491/691$ Computer Vision		Spring 2024
- Aidin Shiri, CMSC $491/691$ Computer Vision		Fall 2023
Ph.D. Mentees (at ASU)		
- Maitreya Patel	Ph.D. CS [cr	urrent], ASU
- Agneet Chatterjee	Ph.D. CS [cr	urrent], ASU
- Nilay Yilmaz	Ph.D. CS [cr	urrent], ASU
MS (Thesis) Mentees (at ASU)		
- Maitreya Patel	M.S. CS 2022,	ASU [thesis]
- Abhishek Chaudhary	M.S. CS 2021,	ASU [thesis]
Undergraduate Mentees (at ASU)		
Undergraduate Mentees (at ASU) - ASU FURI Program: Mertay Dayanc	I	B.S CS, 2020
		3.S CS, 2020 2019-20
– ASU FURI Program: Mertay Dayanc		
 ASU FURI Program: Mertay Dayanc CS Capstone: Paul Butler, Jace Lord, Aashwin Ranjan, Sagarika Pannas 		
 ASU FURI Program: Mertay Dayanc CS Capstone: Paul Butler, Jace Lord, Aashwin Ranjan, Sagarika Pannas Academic Service 		
 ASU FURI Program: Mertay Dayanc CS Capstone: Paul Butler, Jace Lord, Aashwin Ranjan, Sagarika Pannas Academic Service National Science Foundation Reviewer, GRFP 		2019-20
 ASU FURI Program: Mertay Dayanc CS Capstone: Paul Butler, Jace Lord, Aashwin Ranjan, Sagarika Pannas Academic Service National Science Foundation Reviewer, GRFP Panel, IIS/III 		2019-20 2025 2025
 ASU FURI Program: Mertay Dayanc CS Capstone: Paul Butler, Jace Lord, Aashwin Ranjan, Sagarika Pannas Academic Service National Science Foundation Reviewer, GRFP Panel, IIS/III Tutorial Chair, International Conference on Computer Vision (ICCV)		2019-20 2025 2025
 ASU FURI Program: Mertay Dayanc CS Capstone: Paul Butler, Jace Lord, Aashwin Ranjan, Sagarika Pannas Academic Service National Science Foundation Reviewer, GRFP Panel, IIS/III Tutorial Chair, International Conference on Computer Vision (ICCV) Area Chair / Action Editor International Conference on Computer Vision (ICCV) Advances in Neural Information Processing Systems (NeurIPS) NeurIPS Position Papers Track Winter Applications of Computer Vision (WACV) Association for Computational Linguistics (ACL) North American Chapter of the ACL (NAACL) 		2019-20 2025 2025 2025 2024-25 2025-2026 2024 2024
 ASU FURI Program: Mertay Dayanc CS Capstone: Paul Butler, Jace Lord, Aashwin Ranjan, Sagarika Pannas Academic Service National Science Foundation Reviewer, GRFP Panel, IIS/III Tutorial Chair, International Conference on Computer Vision (ICCV) Area Chair / Action Editor International Conference on Computer Vision (ICCV) Advances in Neural Information Processing Systems (NeurIPS) NeurIPS Position Papers Track Winter Applications of Computer Vision (WACV) Association for Computational Linguistics (ACL) North American Chapter of the ACL (NAACL) Empirical Methods in Natural Language Processing (EMNLP) 		2019-20 2025 2025 2025 2024-25 2025-2026 2024 2024

– 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
- AAAI Senior Member Presentation Track	2026
- 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 Multimedia	2025
- ACM Transactions of Computing for Healthcare	2024
- ACM Computing Surveys	2024
 Springer Machine Vision and Applications (MVAP) 	2020
 Springer Book Proposals Reviewer 	2024
- Mentor, AAAI Undergraduate Student Consortium	2024
- Award Committee, Best Student Abstract, AAAI	2024
Leadership:	
 Organizer, Tutorial on Responsibly Building Generative Models [Website] Team Lead, Summer Camp for Applied Language Exploration (SCALE) 2024, 3 	ECCV'24 JHU Human Language
Technology Center of Excellence [Website]	Summer 2024
- Organizer, Tutorial on Reliability of Generative Models in Vision [Website]	WACV'24
 Organizer, Workshop on Open-Domain Reasoning under Multi-Modal Settings (YouTube CVPR'23 	
 Organizer, Workshop on Open-Domain Retrieval under Multi-Modal Settings (C YouTube CVPR'22 	DDRUM), [Website]
 Organizer, Tutorial on Semantic Data Engineering under Multimodal Settings (WACV'23 	SERUM) [Website]
	ebsite], [YouTube] ASU
Misc:	
 Lead Vocalist, CVPR House Band 	2024, 2025
 Volunteer, 2019 Southwest Robotics Symposium, Tempe AZ 	SWRS 2019
 Volunteer, International Conference on Machine Learning 	2020
University Service	
University Service (at UMBC):	
 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]
- CSEE Computer Science Undergraduate Committee	2025–present
- CSEE Computer Science Graduate Admissions Committee	2023–25
- CSEE Publicity Committee	2023–25
· · · · · · · · · · · · · · · · · · ·	
- Faculty Mentor, Center for Women in Technology	2023–present
- CSEE Computer Science Undergraduate Student Advisor	2023–present
- Faculty Learning Community, UMBC Faculty Development Center	2025–26
- 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 2025, Fall 2024, Fall 2023
- 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	2024, 2025
,	
– Member, Asian and Asian American Faculty Staff Council	2023-present
University Service (at ASU):	
 Founder, Summer Vision Reading Group, ASU Course Development, CSE591: Frontier Topics in Vision & Language Y 	[Website] [website] Spring 2021,
	ASU
- Founding Advisor, ASU Machine Learning Club,	
- 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
Presentations	
(Spotlight Talk) International Conference on Computer Vision, AC Works "Active Data Pursuit for Robust Vision"	hop 10/2025
(Invited Talk), UMBC COEIT Research Day "Cognitive Vision: Concepts, Contexts, and Semantics"	04/2025
(Invited Talk), UMBC Information Systems Seminar "Cognitive Vision: Concepts, Contexts, and Semantics"	11/2024
(Tutorial), European Conference on Computer Vision "Evaluation and Benchmarking for Text-to-Image Models"	10/2024
(Lightning Talk), IARPA Video-LINCS Proposers Day "Robust Visual Understanding: Knowledge-Guided and Multimodal Reasons	02/2024
(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) "Robust Visual Understanding in the Multimodal Era"	11/2023
(Invited Talk) "Towards Reliable Semantic Vision"	Spring 2023
 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) 	
(Tutorial), Winter Conference on Applications of Computer Vision "Semantic Data Engineering for Robustness Under Multimodal Settings	01/2023 " [website]
(Invited Talk) University of Illinois at Chicago "Robust Semantic Vision"	10/2022
(Invited Talk) Microsoft Research "Benchmarking Spatial Relationships in Text-to-Image Generation"	10/2022
(Doctoral Consortium) CVPR, New Orleans "Discovering Transformations for Generalization in Semantic Vision"	06/2022
(Guest Lecture) Arizona State University CSE 598 "Introduction to Generalization in Semantic Vision"	03/2022
(Invited Talk) Arizona State University ML Club "Robust Visual Understanding"	09/2021
(Doctoral Consortium), IJCAI, Macao "Vision Beyond Pixels"	08/2019
(Tutorial) Telluride Neuromorphic Cognition Engineering Workshop, "Reasoning about Objects and Actions via Block-Play"	07/2019 [website]
(Invited) Birla Institute of Technology and Science (BITS Pilani) "Deep Learning Methods in Imaging and Computer Vision"	04/2018
Awards	
 CVPR 2024 VDU Workshop, Best Paper Award Research Excellence Award, ASU GPSA Outstanding Mentor Award, ASU GPSA NeurIPS Top Reviewer CVPR 2022 Doctoral Consortium ICLR Best Reviewer SCAI Doctoral Fellowship (ASU), Engineering Graduate Fellowship, (ASU Engineering) ASU GPSA Travel Award 	2024 2022 2022 NeurIPS 2022 CVPR 2022 ICLR 2022 2022, 2021, 2020 2023, 2020 for WACV 2023
Graduate College Travel Award (declined)Graduate College Travel Award (accepted)IJCAI 2019 Doctoral Consortium	WACV'23, CVPR'22 ICCV'21, EMNLP'20, ECCV'20 IJCAI 2019

CMU, 2017

- Inducted, IEEE Eta Kappa Nu, Sigma Chapter

- 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	
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

References

Available upon request