Deepti Ghadiyaram

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Education

Ph.D in Computer Science — Aug. 2011 - Aug. 2017
University of Texas at Austin

Bachelor of Technology (Hons.) in Computer Science — July 2005 - May 2009
International Institute Of Information Technology

Positions Held

Boston University — July 2024 - current
Assistant Professor, Department of Computer Science
Affiliated Faculty, Department of Electrical and Computer Engineering & Faculty of Computing & Data Sciences

Runway — May 2023 - current
Member of Technical Staff

Fundamental AI Research (FAIR), Meta AI — Oct. 2017 - Jan. 2023
Senior Research Scientist & Tech. Lead

Research Interests

Computer vision, machine learning, human visual perception, generative modeling, safe and interpretable machine learning.

Awards and Achievements

- Named Computing & Data Sciences (CDS) Faculty Fellow in 2024
- Recipient of the Distinguished alumni award of IIIT-Hyderabad in 2021.
- Second place in EPIC-Kitchens CVPR 2019 Action Recognition Challenge.
- Recipient of UT-Austin's Graduate Recruitment Fellowship offered to those who rank in the top 10% of all students by the Department of Computer Science for the academic years 2013-2016.
- Best paper finalist at Asilomar Conf. Signals, Systems, and Computers in 2014.
- Recipient of Grace Hopper Celebration Scholarship Grant for the academic year 2014.
- Recipient of the *MCD fellowship* offered by UT-Austin for the academic year 2013-14.
- Selected as one of the 90 young leaders across the globe for *Starting Bloc Fellowship* in 2013.
- Received a *one-of-a-kind* award for my community services both within and outside of IIIT in 2009.
- Selected as one of the 7 delegates from all over India to represent Indian Engineering by the **Ministry of Youth Affairs and Sports**, Gov. of India at Singapore as part of a cultural exchange program between India and Singapore, July 2008
- Included in the Dean's List, for the years 2005 - 2009 for excellence in academic performance in IIIT.
- One of the finalists for Google India Women in Engineering Award, 2008.

Mentoring

- **PhD students:** Dahye Kim (from Fall'25), Tianle Chen (from Fall'25), Xavier Thomas (from Fall'26), Youngsun Lim (from Fall'26), Manushree Vasu (from Fall'26).
- **MS students:** Chaitanya Chakka (from Spring'25), Satya Galla (from Spring'25), Ketan Saichandran (from Spring'25).
- **Internship mentorship:** Zhenheng Yang (Summer'18), Krishna Kumar Singh (Summer'19), Simon Vanderhende (Fall'21)
- **University collaborations:** Zhenqiang Ying, Haoran Niu, Maniratnam Mandal (UT-Austin, 2018 - 2021) Vikram Ramaswamy, Sing Yu Lin, Dora Zhao (Princeton, 2021-2022)
- **Career support:** Several junior women research engineers and scientists (Meta AI, 2018-2022, WiML, 2019 - present).

Professional Service Activity

Program Chair

- Neural and Information Processing Systems (NeurIPS)'22, Datasets and Benchmarks track.

Organizer

- Responsible Computer Vision, European Conference on Computer Vision (ECCV'22).
- XAI4CV: Explainable Artificial Intelligence for Computer Vision, Conference on Computer Vision and Pattern Recognition (CVPR'22, CVPR'23, CVPR'24).
- Responsible Computer Vision, Conference on Computer Vision and Pattern Recognition (CVPR'21).

Session Chair

- Chaired featured papers panel at Neural and Information Processing Systems (NeurIPS)'22.

Program Committee Member

- Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence, '20, '21.

Area Chair

- Women in Machine Learning (WiML) Workshop at NeurIPS, '20, '21.
- Conference on Computer Vision and Pattern Recognition, '21.
- Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence, '22.

Journal Reviewer

- IEEE Transactions of Image Processing, '13,'14,'15,'16,'17,'18,'19.
- IEEE Transactions. on Multimedia, '16,'17,'18,'19.
- Electronics Letters, '16,'17,'18,'19.
- IEEE Transactions on Circuits and Systems for Video Technology, '15,'16,'17,'18,'19.
- Digital Signal Processing, '15,'16,'17,'18,'19.
- EURASIP Journal on Image and Video Processing, '15,'16,'17,'18,'19.
- IEEE Journal of Selected Topics in Signal Processing, '15,'16,'17,'18,'19.

Conference Reviewer

- Conference on Computer Vision and Pattern Recognition (CVPR), '20, '22, '23.
- Neural and Information Processing Systems (NeurIPS), '22.
- European Conference on Computer Vision (ECCV), '22.
- Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence, '20, '22.
- The Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP), '14, '17, '18, '19,'20,'21, '22, '23.
- Women in Machine Learning Workshop, '19, '20, '21, '22.
- ACM SIGGRAPH, '17.

Invited and Conference Talks

- WorldModelBench: The 1st Workshop on Benchmarking World Models, a workshop at CVPR 2025.
- Scalable Generative Models in Computer Vision, a tutorial at CVPR 2025.
- EURASIP Journal on Image and Video Processing webinar, June 2025.
- Invited speaker at Video @Scale.
- AI4ALL at BU: Invited talk to high school female students to highlight the research and career opportunities in AI.
- "Diffusion-based Video Generative Models," Tutorial at CVPR 2024
- "Future of Computer Vision Datasets," Invited speaker at CVPR 2021.
- "Learning Generalized Visual Representations at Facebook," Invited talk at NeurIPS, Dec. 2020.
- "Don't Judge an Object by its Context: Learning to Overcome Contextual Bias," Oral Presentation at CVPR, June 2020.
- "Large-scale weakly-supervised pre-training for Video Action Recognition," Invited talk at EPIC-Kitchens Action Recognition Challenge, CVPR, Long Beach, June 2019.
- "Less is more: Learning Highlight Detection from Video Duration," Invited talk at Learning from Unlabeled Videos, CVPR, Long Beach, June 2019.
- "From Visual Recognition to Reasoning at Facebook," presented at F8, an annual developer conference attended by 5000 researchers, developers, and entrepreneurs world-wide, May 2019.
- "Feature maps driven no-reference image quality prediction of authentically distorted images," Oral presentation at Human Vision and Electronic Imaging, San Francisco, Feb. 2015.
- "Crowdsourced study of subjective image quality," Oral presentation at Asilomar Conference on Signals, Systems and Computers, California, Nov. 2014.