

Maitreya Patel

Curriculum Vitae

Arizona State University
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Education

- 2023–present **PhD, Computer Science, SCAI, Arizona State University.**
Advisors: Yezhou Yang, Chitta Baral
CGPA : 4.00/4.00
- 2021–2022 : **Masters, Computer Science, SCAI, Arizona State University.**
Thesis: Counterfactual Reasoning for learning implicit physical properties
Advisor: Yezhou Yang, Chitta Baral
CGPA : 4.00/4.00
- 2016–2020 : **Bachelor of Technology, ICT, Dhirubhai Ambani Institute of Information and Communication Technology.**
Advisor: Hemant Patil
CGPA : 7.54/10

Selected Publications

My research has been published at top-tier AI/ML conference venues: 2 at EMNLP (h5-index: 176), 1 at ICASSP (h5-index: 123), 3 at EUSIPCO (h5-index: 54), etc..

Scholar: scholar.google.com/citations?user=z-mIKgAAAAJ&hl=en.

Latest arXiv:

- 2023 **Maitreya Patel**, Tejas Gokhale, Chitta Baral, and Yezhou Yang. Conceptbed: Evaluating concept learning abilities of text-to-image diffusion models. *arXiv preprint arXiv:2306.04695*, 2023.
- 2023 Changhoon Kim*, Kyle Min*, **Maitreya Patel**, Sheng Cheng, and Yezhou Yang. Wouaf: Weight modulation for user attribution and fingerprinting in text-to-image diffusion models. *arXiv preprint arXiv:2306.04744*, 2023.

In Conference Proceedings

- 2022 **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 (EMNLP)*, 2022.
- 2022 Yizhong Wang, Swaroop Mishra, Pegah Alipoormolabashi, Yeganeh Kordi, Amirreza Mirzaei, Anjana Arunkumar, Arjun Ashok, Arut Selvan Dhanasekaran, Atharva Naik, David Stap, et al. Benchmarking generalization via in-context instructions on 1,600+ language tasks. In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2022.
- 2020 **Maitreya Patel**, Mirali Purohit, Jui Shah, and Hemant A Patil. CinC-GAN for effective f0 prediction for whisper-to-normal speech conversion. In *28th European Signal Processing Conference (EUSIPCO)*. IEEE, 2020.

- 2020 Mirali Purohit, Mihir Parmar, **Maitreya Patel**, Harshit Malaviya, and Hemant A Patil. Weak speech supervision: A case study of dysarthria severity classification. In *28th European Signal Processing Conference (EUSIPCO)*. IEEE, 2020.
- 2020 Harshit Malaviya, Jui Shah, **Maitreya Patel**, Jalansh Munshi, and Hemant A Patil. MSpeC-Net: Multi-domain speech conversion network. In *45th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 7764–7768. IEEE, 2020.
- 2019 **Maitreya Patel**, Mihir Parmar, Savan Doshi, Nirmesh J Shah, and Hemant A Patil. Novel adaptive generative adversarial network for voice conversion. In *11th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)*, pages 1273–1281. IEEE, 2019.
- 2019 Mihir Parmar, Savan Doshi, Nirmesh J Shah, **Maitreya Patel**, and Hemant A Patil. Effectiveness of cross-domain architectures for whisper-to-normal speech conversion. In *27th European Signal Processing Conference (EUSIPCO)*. IEEE, 2019.

Experience

Research Assistant, ASU

- Fall'22 – **Robust multi-modal Representation Learning**.
- Present **Advisor : Yezhou Yang**

AI/ML Intern, LatentAI

- Summer'22 **Semantic segmentation model compression for edge devices**.
- Advisor : Jan Ernst**

Research Assistant, ASU

- May'21 – **Unsupervised aspect based sentiment analysis**.
- May'22 **Advisor : Hasan Davulcu**

Data Science Associates, ZS Associates

- Jan'20 – **Transformers for rare-disease detection from tabular data**.
- Dec'20 **Advisor : Prakash Prakash**

Academic Achievements & Recognitions

- 2022 Received **Graduate College Travel Award** FY23 Q2 for EMNLP from ASU.
- 2021 **Simon Fraser University - MSCS Research scholarship** of \$42,000.00 (Declined).
- 2020 **Deans' Award for Excellence in Research & Innovation** in class of 2020 undergraduate batch.
- 2019 **Ranked under top 50** out of 7000 applicants in **ML-challenge** organized by ZS Associates in India.

Invited Talks

- Feb'23 **Recent Advances in Generative Models**.
- DA-IICT

- July'22 **Importance of Counterfactual Reasoning towards Human Level Intelligence (HLAI).**
LatentAI
- May'20 **MSpeC-Net: Multi-Domain Speech Conversion Network.**
ICASSP
- Aug'19 **Towards eXplainable AI (XAI) to understand what CNNs are learning.**
DAIICT
- Nov'19 **How to deploy any deep learning system?.**
DAIICT

Teaching Experience

- Fall'22 : **Student Project Mentor**, *CSE576: Natural Language Processing*, ASU.
- Fall'22 : **Teaching Assistant**, *CSE408: Multimedia Information Systems*, ASU.
- Summer'19 : **Teaching Assistant**, *IEEE Summer School on Introduction to Machine Learning*, DAIICT.

Community Services

- Reviewer: **ICML, NeurIPS, EMNLP.**
CVPR O-DRUM, SoCalNLP NLP Symposium.
- Volunteer: **NeurIPS, 2022**, New Orleans.
- Convener **Research Club**, 2018-2019, DA-IICT.

Referees

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