

Asad Aali



✉ asadaali@stanford.edu
🌐 asadaali.com
🎓 Google Scholar
👤 asad-aali

Education

- 2022 – 2024 **MS, Electrical & Computer Engineering**, The University of Texas at Austin.
- 2021 – 2022 **MS, Information Technology**, The University of Texas at Austin.
- 2015 – 2019 **BS, Accounting & Finance**, Lahore University of Management Sciences.

Employment

- 2024 – **Research Scientist**, Stanford University.
Focus: Machine learning, healthcare
- 2022 – 2024 **Research Assistant**, The University of Texas at Austin.
- 2024 – 2024 **Teaching Assistant (ECE 313)**, The University of Texas at Austin.
- 2023 – 2023 **Research Intern**, Amazon.
- 2022 – 2022 **Machine Learning Intern**, Dell Technologies.
- 2020 – 2021 **Data Analyst**, Plutus21 Capital.
- 2019 – 2020 **Data Analyst**, EZO.

Research

Journal Articles

- 1 **A. Aali**, M. Arvinte, S. Kumar, et al. Enhancing Deep Learning-Driven Multi-Coil MRI Reconstruction via Self-Supervised Denoising. In: *arXiv:2411.12919* (2024).
- 2 **A. Aali**, D. Van Veen, Y. I. Arefeen, et al. A Dataset and Benchmark for Hospital Course Summarization with Adapted Large Language Models. In: *Journal of the American Medical Informatics Association* (2024).
- 3 D. Van Veen, C. Van Uden, L. Blankemeier, et al. Adapted large language models can outperform medical experts in clinical text summarization. In: *Nature medicine* (2024).

Conference Proceedings

- 1 **A. Aali**, G. Daras, B. Levac, et al. Ambient Diffusion Posterior Sampling: Solving Inverse Problems with Diffusion Models trained on Corrupted Data. In: *International Conference on Learning Representations (ICLR)*. 2025.
- 2 **A. Aali**, M. Arvinte, S. Kumar, et al. GSURE Denoising enables training of higher quality generative priors for accelerated Multi-Coil MRI Reconstruction. In: *International Society for Magnetic Resonance in Medicine (ISMRM)*. 2024.
- 3 **A. Aali**, A. Johnston, L. Blankemeier, et al. Detecting Underdiagnosed Medical Conditions with Deep Learning-Based Opportunistic CT Imaging. In: *Stanford Radiology Retreat*. 2024.
- 4 **A. Aali**, M. Arvinte, S. Kumar, et al. Solving Inverse Problems with Score-Based Generative Priors learned from Noisy Data. In: *IEEE Asilomar Conference on Signals, Systems, and Computers*. 2023.

- 5 S. Kumar, **A. Aali**, and J. I. Tamir. Multi-Contrast 3D Fast Spin-Echo T2 Shuffling Reconstruction with Score-Based Deep Generative Priors. In: *International Society for Magnetic Resonance in Medicine (ISMRM)*. 2023.

Datasets

- 1 **A. Aali**, D. Van Veen, Y. I. Arefeen, et al. MIMIC-IV-Ext-BHC: Labeled Clinical Notes Dataset for Hospital Course Summarization. *PhysioNet*. 2024.

Talks

- 2025 **Advancing Healthcare with Machine Learning.**
Research Talk, HOPPR.
- 2024 **Detecting Underdiagnosed Medical Conditions with Opportunistic CT.**
Radiology Retreat, Stanford University.
- Splitwiser: Efficient LLM Inference with Constrained Resources.**
Lecture (ECE 382V), The University of Texas at Austin.
- Generative Priors for Accelerated MRI Reconstruction.**
Guest Lecture (COSC 4380), Austin Community College (ACC).
- Accelerated Multi-Coil MRI Reconstruction.**
ECE Outstanding Student Series, The University of Texas at Austin.
- GSURE Denoising for Accelerated Multi-Coil MRI Reconstruction.**
International Society for Magnetic Resonance in Medicine, Singapore.
- 2023 **Hospital Course Summarization with Adapted Large Language Models.**
Intern Research Showcase, Amazon.
- MIMO Channel Estimation with Priors learned from Noisy Data.**
6G@UT Conference, The University of Texas at Austin.
- Solving Inverse Problems with Priors learned from Noisy Data.**
IEEE Asilomar Conference, Pacific Grove.
- Generative Priors for Solving Inverse Problems from Noisy Data.**
IFML Workshop, University of Washington, Seattle.
- 2022 **MIMO Channel Estimation using Score-Based Generative Models.**
6G@UT Conference, The University of Texas at Austin.

Awards and Achievements

- 2024 **ECE Outstanding Student Award**, The University of Texas at Austin.