

Asad Aali

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Education

- 2022 – 2024 **MS, Electrical & Computer Engineering**, UT Austin.
- 2021 – 2022 **MS, Information Technology**, UT Austin.
- 2015 – 2019 **BS, Accounting & Finance**, LUMS.

Employment

- 2024 – **Research Scientist**, Stanford University.
Focus: Machine learning, healthcare
- 2022 – 2024 **Research Assistant**, UT Austin.
- 2024 – 2024 **Teaching Assistant**, UT 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. Robust 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 opportunistic imaging. In: *arXiv:2409.11686*. 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  **Optimizing Clinical Workflows using Language Models.**
Guest Lecture, Austin Community College.
-  **Advancing Healthcare with Machine Learning.**
Research Talk, HOPPR.
- 2024  **Detecting Underdiagnosed Medical Conditions with Opportunistic Imaging.**
Radiology Retreat, Stanford University.
-  **Splitwiser: Efficient LM Inference with Constrained Resources.**
Lecture, UT Austin.
-  **Generative Priors for Accelerated MRI Reconstruction.**
Guest Lecture, Austin Community College.
-  **Accelerated Multi-Coil MRI Reconstruction.**
ECE Outstanding Student Series, UT Austin.
-  **GSURE Denoising for Accelerated Multi-Coil MRI Reconstruction.**
ISMRM, Singapore.
- 2023  **Hospital Course Summarization with Adapted Large Language Models.**
Research Showcase, Amazon.
-  **MIMO Channel Estimation with Priors learned from Noisy Data.**
6G@UT Conference, UT 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.
- 2022  **MIMO Channel Estimation using Score-Based Generative Models.**
6G@UT Conference, UT Austin.

Awards and Achievements

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