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: *Magnetic Resonance in Medicine* (2025).

2. **A. Aali**, V. Bikia, M. Varma, et al. Expert-level validation of AI-generated medical text with scalable language models. In: *arXiv:2507.03152* (2025).

3. S. Bedi, H. Cui, M. Fuentes, et al. MedHELM: Holistic Evaluation of Large Language Models for Medical Tasks. In: *arXiv:2505.23802* (2025).

4. **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).

5. 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. Cardoza, and M. Capo. Splitwiser: Efficient LM inference with constrained resources. In: *arXiv:2505.03763*. 2024.

4   **A. Aali**, A. Johnston, L. Blankemeier, et al. Automated detection of underdiagnosed medical conditions via opportunistic imaging. In: *arXiv:2409.11686*. 2024.

5   **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.

6   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-BHC: Labeled clinical notes dataset for hospital course summarization. *PhysioNet*. 2024.

Talks

2025

MedVAL: Expert-Level Validation of AI-Generated Medical Text.
Research Talk, Daneshjou Lab (Stanford University).

Optimizing Clinical Workflows using Language Models.
Guest Lecture, Austin Community College.

Advancing Healthcare with Machine Learning.
Research Talk, HOPPR.

2024

Detecting Underdiagnosed Conditions via 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, UT Austin.