

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.
- 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. MedVAL: Toward expert-level medical text validation with 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 E. Pérez-Guerrero, **A. Aali**, E. Irizarry, et al. Performance of large language model-generated spanish discharge material. In: *Journal of General Internal Medicine* (2025).
- 5 **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).
- 6 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*. 2025.
- 2 F. Grolleau, E. Alsentzer, T. Keyes, et al. MedFactEval and MedAgentBrief: A framework and workflow for generating and evaluating factual clinical summaries. In: *Pacific Symposium on Biocomputing*. 2025.

- 3 M. A. Mohsin, A. Bilal, M. Umer, et al. Conditional prior-based non-stationary channel estimation using accelerated diffusion models. In: *arXiv:2509.15182*. 2025.
- 4 R. Sanda, **A. Aali**, A. Johnston, et al. Patch-based diffusion for data-efficient, radiologist-preferred MRI reconstruction. In: *arXiv:2509.21531*. 2025.
- 5 **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*. 2024.
- 6 **A. Aali**, A. Cardoza, and M. Capo. Splitwiser: Efficient LM inference with constrained resources. In: *arXiv:2505.03763*. 2024.
- 7 **A. Aali**, A. Johnston, L. Blankemeier, et al. Automated detection of underdiagnosed medical conditions via opportunistic imaging. In: *American Association for the Study of Liver Diseases*. 2024.
- 8 **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.
- 9 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*. 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

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| 2025 | <ul style="list-style-type: none"> 📖 MedVAL: Medical Text Validation with Language Models.
<i>AI+Biomedicine Seminar</i>, Stanford University. 📖 Optimizing Clinical Workflows using Language Models.
<i>Guest Lecture</i>, Austin Community College. 📖 Advancing Healthcare with Machine Learning.
<i>Research Talk</i>, HOPPR. |
| 2024 | <ul style="list-style-type: none"> 📖 Detecting Underdiagnosed Conditions via Opportunistic Imaging.
<i>Radiology Retreat</i>, Stanford University. 📖 Splitwiser: Efficient LM Inference with Constrained Resources.
<i>Lecture</i>, UT Austin. 📖 Generative Priors for Accelerated MRI Reconstruction.
<i>Guest Lecture</i>, Austin Community College. 📖 Accelerated Multi-Coil MRI Reconstruction.
<i>ECE Outstanding Student Series</i>, UT Austin. 📖 GSURE Denoising for Accelerated Multi-Coil MRI Reconstruction.
<i>ISMRM</i>, Singapore. |
| 2023 | <ul style="list-style-type: none"> 📖 Hospital Course Summarization with Adapted Large Language Models.
<i>Research Showcase</i>, Amazon. 📖 MIMO Channel Estimation with Priors learned from Noisy Data.
<i>6G@UT Conference</i>, UT Austin. 📖 Solving Inverse Problems with Priors learned from Noisy Data.
<i>IEEE Asilomar Conference</i>, Pacific Grove. 📖 Generative Priors for Solving Inverse Problems from Noisy Data.
<i>IFML Workshop</i>, University of Washington. |

Talks (continued)

- 2022  **MIMO Channel Estimation using Score-Based Generative Models.**
6G@UT Conference, UT Austin.

Awards and Achievements

- 2025  **Best Paper Award Candidate**, NeurIPS GenAI4Health.
- 2024  **ECE Outstanding Student Fellowship**, UT Austin.