

# 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 S. Bedi, H. Cui, M. Fuentes, et al. MedHELM: Holistic Evaluation of Large Language Models for Medical Tasks. In: *arXiv:2505.23802* (2025).
- 3 **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).
- 4 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

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- 2025
  - 📖 **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

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- 2024
  - 📖 **ECE Outstanding Student Award**, UT Austin.