

# Asad Aali

Research Data Analyst, Stanford University



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## Education

- 2022 – 2024 **MS, Electrical & Computer Engineering**, The University of Texas at Austin.  
Thesis: *Solving Inverse Problems with Generative Priors Trained on Corrupted Data.*
- 2021 – 2022 **MS, Information Technology**, The University of Texas at Austin.  
Thesis: *Optimizing cloud usage costs using Deep Learning-driven Transformer models.*
- 2015 – 2019 **BS (Honors), Accounting & Finance**, Lahore University of Management Sciences.  
Minor: *Computer Science.*

## Research

### Preprints

- 1 **A. Aali**, G. Daras, B. Levac, S. Kumar, A. G. Dimakis, and J. I. Tamir, Ambient diffusion posterior sampling: Solving inverse problems with diffusion models trained on corrupted data, 2024.
- 2 **A. Aali**, A. Johnston, L. Blankemeier, D. Van Veen, L. T. Derry, D. Svec, *et al.*, Detecting underdiagnosed medical conditions with deep learning-based opportunistic ct imaging, 2024.
- 3 **A. Aali**, D. Van Veen, Y. I. Arefeen, J. Hom, C. Bluethgen, E. P. Reis, *et al.*, A dataset and benchmark for hospital course summarization with adapted large language models, 2024.

### Journal Articles

- 1 D. Van Veen, C. Van Uden, L. Blankemeier, J.-B. Delbrouck, **A. Aali**, C. Bluethgen, *et al.*, Adapted large language models can outperform medical experts in clinical text summarization, *Nature medicine*, vol. 30, no. 4, pp. 1134–1142, 2024.

### Conference Proceedings










- 1 **A. Aali**, M. Arvinte, S. Kumar, Y. I. Arefeen, and J. I. Tamir, Gsure denoising enables training of higher quality generative priors for accelerated multi-coil mri reconstruction, in *International Society for Magnetic Resonance in Medicine*, 2024.
- 2 **A. Aali**, M. Arvinte, S. Kumar, and J. I. Tamir, Solving inverse problems with score-based generative priors learned from noisy data, in *57th Asilomar Conference on Signals, Systems, and Computers*, IEEE, 2023.
- 3 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, J. Hom, C. Bluethgen, E. P. Reis, *et al.*, Mimic-iv-ext-bhc: Labeled clinical notes dataset for hospital course summarization, *PhysioNet*, 2024.

## Talks

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- 2024     **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

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

## Past Employment

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- 2022 – 2024     **Research Assistant**, The University of Texas at Austin.
- 2023 – 2024     **Teaching Assistant**, 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     **Solutions Consultant**, EZOfficeInventory.