

Asad Aali

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EDUCATION	The University of Texas at Austin - MS in Electrical & Computer Engineering <u>Thesis</u> : Solving Inverse Problems with Priors trained on Corrupted Data <u>GPA</u> : 3.8 / 4.0	2022 – 2024
	The University of Texas at Austin - MS in Information Technology <u>Thesis</u> : Reduction in Cloud Usage costs using Temporal Fusion Transformers (TFT) <u>GPA</u> : 3.9 / 4.0	2021 – 2022
	LUMS - BSc (Hons) in Accounting & Finance <u>Minor</u> : Computer Science <u>GPA</u> : 3.6 / 4.0	2015 – 2019
EXPERIENCE	Research Engineer , Stanford Medicine Stanford, CA Research focus: Computer vision, medical imaging, biomedical informatics	2024 – Present
	Research Assistant , UT Austin Austin, TX Research focus: Computational imaging, inverse problems, deep learning	2022 – 2024
	Teaching Assistant , UT Austin Austin, TX Teaching assistant for Linear Systems and Signals (ECE 313) covering 84 students	2024 – 2024
	Research Engineer Intern , Amazon Health San Francisco, CA Fine-tuned LLMs to improve synthesis of brief hospital courses from clinical notes	2023 – 2023
	Machine Learning Intern , Dell Technologies Austin, TX Built a machine learning pipeline using TFTs to reduce cloud usage costs	2022 – 2022
	Software Engineer , Plutus21 Capital Dallas, TX Developed software algorithms and dashboards for tracking of portfolio funds	2020 – 2021
	Solutions Consultant , EZOfficeInventory Austin, TX Led onboarding for enterprise clients and handled cloud-based deployments	2019 – 2020

PUBLICATIONS & PREPRINTS

1. **Asad Aali***, Adney Cardoza*, Melissa Capo*.
[Splitwiser: Efficient LLM Inference with Constrained Resources.](#)
Preprint, 2024.
2. **Asad Aali***, Giannis Daras*, Brett Levac, Sidharth Kumar, Alexandros G. Dimakis and Jonathan I. Tamir.
[Ambient Diffusion Posterior Sampling: Solving Inverse Problems with Diffusion Models trained on Corrupted Data.](#)
Preprint, 2024.
3. **Asad Aali**, Dave V. Veen, Yamin I. Arefeen, Jason Hom, Christian Bluethgen, Eduardo P. Reis, Sergios Gatidis et al.
[A Benchmark of Domain-Adapted Large Language Models for Generating Brief Hospital Course Summaries.](#)
Preprint, 2024.
4. **Asad Aali**, Marius Arvinte, Sidharth Kumar, Yamin I. Arefeen and Jonathan I. Tamir.
[GSURE Denoising enables training of higher quality generative priors for accelerated Multi-Coil MRI Reconstruction.](#)
International Society for Magnetic Resonance in Medicine (ISMRM), Oral, 2024.

5. Dave V. Veen, Cara V. Uden, Louis Blankemeier, Jean-Benoit Delbrouck, [Asad Aali](#), Christian Bluethgen, Anuj Pareek et al.
[Adapted large language models can outperform medical experts in clinical text summarization.](#)
Nature Medicine, 2024.
6. [Asad Aali](#), Marius Arvinte, Sidharth Kumar, and Jonathan I. Tamir.
[Solving Inverse Problems with Score-Based Generative Priors learned from Noisy Data.](#)
IEEE Asilomar Conference on Signals, Systems, and Computers, 2023.
7. Sidharth Kumar, [Asad Aali](#), and Jonathan I. Tamir.
[T2 Shuffling Fast 3D Spin-Echo Reconstruction with Score-Based Generative Modeling.](#)
ISMRM Workshop on Data Sampling & Image Reconstruction, 2023.
8. Sidharth Kumar, [Asad Aali](#), and Jonathan I. Tamir.
[Multi-Contrast 3D Fast Spin-Echo T2 Shuffling Reconstruction with Score-Based Deep Generative Priors.](#)
International Society for Magnetic Resonance in Medicine (ISMRM), Oral, 2023.

INVITED TALKS & PRESENTATIONS

- [Generative Priors for Accelerated MRI Reconstruction.](#)
Guest Lecture – Machine Learning II (COSC-4380)
Austin Community College (ACC), Austin, TX, Apr 2024.
- [GSURE Denoising enables training of higher quality generative priors for accelerated Multi-Coil MRI Reconstruction.](#)
ECE Outstanding Student Lecture Series
The University of Texas at Austin, Austin, TX, Mar 2024.
- [MIMO Channel Estimation with Score-Based Generative Priors learned from Noisy Data.](#)
6G@UT Student Research Showcase
The University of Texas at Austin, Austin, TX, Dec 2023.
- [Domain-Adapted Large Language Models for Brief Hospital Course Summarization.](#)
Intern Research Showcase
Amazon Health, Virtual, Dec 2023.
- [Solving Inverse Problems with Score-Based Generative Priors learned from Noisy Data.](#)
Poster Presentation
IEEE Asilomar Conference, Pacific Grove, CA, Oct 2023.
- [Generative Priors for Solving Inverse Problems from Noisy Data.](#)
IFML Workshop
University of Washington, Seattle, WA, Apr 2023.
- [MIMO Channel Estimation using Score-Based Generative Models.](#)
6G@UT Student Research Showcase
The University of Texas at Austin, Austin, TX, Nov 2022.