Asad Aali

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Google Scholar
asad-aali

Employment

2024 – **Research Data Analyst,** Stanford University.
2023 – **Founder & CEO,** Algorithmia.

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 Publications

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**, 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

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

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

Past Employment

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.