

# Ali Siahkoohi

Simons Postdoctoral Fellow  
Dept. of Comp. Applied Math. & Operations Research  
Rice University

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<https://alisiahkoohi.github.io>  
Last updated: May 2, 2025

## Research Interests

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I work on **uncertainty quantification** for high-dimensional problems in computational science and engineering, with an emphasis on **uncertainty-aware AI**.

## Academic Appointments

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<b>University of Central Florida</b> Tenure-track Assistant Professor Department of Computer Science	August 2025 Orlando, FL, USA
<b>Rice University</b> Simons Postdoctoral Fellow Department of Computational Applied Mathematics & Operations Research Jointly hosted by Maarten V. de Hoop and Richard G. Baraniuk	August 2022 – July 2025 Houston, TX, USA

## Education

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<b>Georgia Institute of Technology</b> Ph.D. in Computational Science and Engineering Advised by Felix J. Herrmann	August 2022 Atlanta, GA, USA
<b>University of Tehran</b> M.Sc. in Geophysics	March 2016 Tehran, Iran
<b>Sharif University of Technology</b> B.Sc. in Electrical Engineering	August 2013 Tehran, Iran

## Publications

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Google Scholar profile: <https://scholar.google.com/citations?user=sxRMqYIAAAJ&h>

### In Preparation & Under Review

- P2. [A. Siahkoohi](#), R. Morel, R. Balestrieri, E. Ally, G. Sainton, T. Kawamura, and M. V. de Hoop. Multi-scale clustering and source separation of InSight mission seismic data. Preprint arXiv:2305.16189, 2025  
[pdf] [code] [slides] [bib]
- P1. P. M. Mayer, L. Luzi, [A. Siahkoohi](#), D. H. Johnson, and R. G. Baraniuk. Improving fairness and mitigating MADness in generative models. Preprint arXiv:2405.13977, 2024  
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### Journal Publications

- J8. R. Orozco, [A. Siahkoohi](#), M. Louboutin, and F. J. Herrmann. ASPIRE: Iterative amortized posterior inference for Bayesian inverse problems. *Inverse Problems*, In print, 2025  
[pdf] [code] [bib]
- J7. R. Orozco, P. Witte, M. Louboutin, [A. Siahkoohi](#), G. Rizzuti, B. Peters, and F. J. Herrmann. InvertibleNetworks.jl: A Julia package for scalable normalizing flows. *Journal of Open Source Software*, 9(99):6554, 2024  
[pdf] [code] [link] [bib]

- J6. L. Luzi, P. M. Mayer, J. Casco-Rodriguez, [A. Siahkoohi](#), and R. G. Baraniuk. Boomerang: Local sampling on image manifolds using diffusion models. *Transactions on Machine Learning Research*, 2024a  
[\[pdf\]](#) [\[code\]](#) [\[link\]](#) [\[bib\]](#)
- J5. M. Louboutin, Z. Yin, R. Orozco, T. J. Grady II, [A. Siahkoohi](#), G. Rizzuti, P. A. Witte, O. Møyner, G. J. Gorman, and F. J. Herrmann. Learned multiphysics inversion with differentiable programming and machine learning. *The Leading Edge*, 42(7):474–486, 2023  
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- J4. Y. Zhang, Z. Yin, O. López, [A. Siahkoohi](#), M. Louboutin, R. Kumar, and F. J. Herrmann. Optimized time-lapse acquisition design via spectral gap ratio minimization. *Geophysics*, 88(4):A19–A23, 2023a  
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- J3. [A. Siahkoohi](#), G. Rizzuti, R. Orozco, and F. J. Herrmann. Reliable amortized variational inference with physics-based latent distribution correction. *Geophysics*, 88(3):R297–R322, 2023a  
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- J2. [A. Siahkoohi](#), G. Rizzuti, and F. J. Herrmann. Deep Bayesian inference for seismic imaging with tasks. *Geophysics*, 87(5):S281–S302, 2022a  
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- J1. [A. Siahkoohi](#), M. Louboutin, and F. J. Herrmann. The importance of transfer learning in seismic modeling and imaging. *Geophysics*, 84(6):A47–A52, 2019a  
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## Peer-Reviewed Conference Proceedings

- C32. S. Alemohammad, J. Casco-Rodriguez, L. Luzi, A. I. Humayun, H. Babaei, D. LeJeune, [A. Siahkoohi](#), and R. G. Baraniuk. Self-consuming generative models go MAD. In *The Twelfth International Conference on Learning Representations*, 2024  
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- C31. L. Luzi, D. LeJeune, [A. Siahkoohi](#), S. Alemohammad, V. Saragadam, H. Babaei, N. Liu, Z. Wang, and R. G. Baraniuk. Titan: Bringing the deep image prior to implicit representations. In *IEEE International Conference on Acoustics, Speech and Signal Processing*, pages 6165–6169, 2024b  
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- C30. L. Baldassari, [A. Siahkoohi](#), J. Garnier, K. Sølna, and M. V. de Hoop. Conditional score-based diffusion models for Bayesian inference in infinite dimensions. In *Advances in Neural Information Processing Systems*, volume 36, pages 24262–24290, 2023  
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- C29. [A. Siahkoohi](#), R. Morel, M. V. de Hoop, E. Ally, G. Sainton, and T. Kawamura. Unearthing InSights into Mars: Unsupervised source separation with limited data. In *Proceedings of the 40th International Conference on Machine Learning*, volume 202, pages 31754–31772, 2023b  
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- C28. R. Orozco, M. Louboutin, [A. Siahkoohi](#), G. Rizzuti, T. van Leeuwen, and F. J. Herrmann. Amortized normalizing flows for transcranial ultrasound with uncertainty quantification. In *Medical Imaging with Deep Learning*, volume 227, pages 332–349, 2023a  
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- C27. R. Orozco, [A. Siahkoohi](#), M. Louboutin, and F. J. Herrmann. Refining amortized posterior approximations using gradient-based summary statistics. In *5th Symposium on Advances in Approximate Bayesian Inference*, 2023b  
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- C26. R. Orozco, [A. Siahkoohi](#), G. Rizzuti, T. van Leeuwen, and F. J. Herrmann. Adjoint operators enable fast and amortized machine learning based Bayesian uncertainty quantification. In *Medical Imaging 2023: Image Processing*, volume 12464, page 124641L, 2023c  
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- C25. Y. Zhang, Z. Yin, O. Lopez, [A. Siahkoohi](#), M. Louboutin, and F. J. Herrmann. 3D seismic survey design by maximizing the spectral gap. In *Third International Meeting for Applied Geoscience & Energy*, 2023b  
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- C24. [A. Siahkoohi](#), M. Chinen, T. Denton, W. B. Kleijn, and J. Skoglund. Ultra-low-bitrate speech coding with pretrained Transformers. In *Proceedings of Interspeech*, pages 4421–4425, 2022b  
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- C23. [A. Siahkoohi](#), M. Louboutin, and F. J. Herrmann. Velocity continuation with Fourier neural operators for accelerated uncertainty quantification. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 1765–1769, 2022c  
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- C22. M. Louboutin, P. Witte, [A. Siahkoohi](#), G. Rizzuti, Z. Yin, R. Orozco, and F. J. Herrmann. Accelerating innovation with software abstractions for scalable computational geophysics. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 1482–1486, 2022  
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- C21. Z. Yin, [A. Siahkoohi](#), M. Louboutin, and F. J. Herrmann. Learned coupled inversion for carbon sequestration monitoring and forecasting with Fourier neural operators. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 467–472, 2022  
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- C20. Y. Zhang, M. Louboutin, [A. Siahkoohi](#), Z. Yin, R. Kumar, and F. J. Herrmann. A simulation-free seismic survey design by maximizing the spectral gap. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 15–20, 2022  
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- C19. [A. Siahkoohi](#), R. Orozco, G. Rizzuti, and F. J. Herrmann. Wave-equation based inversion with amortized variational Bayesian inference. In *EAGE Deep learning for seismic processing: Investigating the foundations workshop*, 2022d  
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- C18. R. Orozco, [A. Siahkoohi](#), G. Rizzuti, T. van Leeuwen, and F. J. Herrmann. Photoacoustic imaging with conditional priors from normalizing flows. In *NeurIPS Workshop on Deep Learning and Inverse Problems*, 2021  
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- C17. [A. Siahkoohi](#), G. Rizzuti, M. Louboutin, P. Witte, and F. J. Herrmann. Preconditioned training of normalizing flows for variational inference in inverse problems. In *3rd Symposium on Advances in Approximate Bayesian Inference*, 2021  
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- C16. [A. Siahkoohi](#) and F. J. Herrmann. Learning by example: Fast reliability-aware seismic imaging with normalizing flows. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 1580–1585, 2021  
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- C15. R. Kumar, M. Kotsi, [A. Siahkoohi](#), and A. Malcolm. Enabling uncertainty quantification for seismic data preprocessing using normalizing flows (NF)—An interpolation example. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 1515–1519, 2021  
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- C14. G. Rizzuti, [A. Siahkoohi](#), P. A. Witte, and F. J. Herrmann. Parameterizing uncertainty by deep invertible networks, an application to reservoir characterization. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 1541–1545, 2020  
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- C13. M. Zhang, [A. Siahkoohi](#), and F. J. Herrmann. Transfer learning in large-scale ocean bottom seismic wavefield reconstruction. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 1546–1550, 2020  
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- Abstracts*, pages 1666–1670, 2020  
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- C12. [A. Siahkoohi](#), G. Rizzuti, and F. J. Herrmann. Weak deep priors for seismic imaging. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 2998–3002, 2020a  
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- C11. [A. Siahkoohi](#), G. Rizzuti, and F. J. Herrmann. Uncertainty quantification in imaging and automatic horizon tracking—A Bayesian deep-prior based approach. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 1636–1640, 2020b  
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- C10. [A. Siahkoohi](#), G. Rizzuti, and F. J. Herrmann. A deep-learning based Bayesian approach to seismic imaging and uncertainty quantification. In *European Association of Geoscientists & Engineers Conference and Exhibition Extended Abstracts*, 2020c  
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- C9. F. J. Herrmann, [A. Siahkoohi](#), and G. Rizzuti. Learned imaging with constraints and uncertainty quantification. In *NeurIPS Deep Inverse Workshop*, 2019  
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- C8. [A. Siahkoohi](#), R. Kumar, and F. J. Herrmann. Deep-learning based ocean bottom seismic wavefield recovery. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 2232–2237, 2019b  
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- C7. [A. Siahkoohi](#), D. J. Verschuur, and F. J. Herrmann. Surface-related multiple elimination with deep learning. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 4629–4634, 2019c  
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- C6. G. Rizzuti, [A. Siahkoohi](#), and F. J. Herrmann. Learned iterative solvers for the Helmholtz equation. In *European Association of Geoscientists & Engineers Conference and Exhibition Extended Abstracts*, 2019  
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- C5. [A. Siahkoohi](#), M. Louboutin, R. Kumar, and F. J. Herrmann. Deep convolutional neural networks in prestack seismic—two exploratory examples. In *Society of Exploration Geophysicists Technical Program Expanded Abstracts*, pages 2196–2200, 2018a  
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- C4. [A. Siahkoohi](#), R. Kumar, and F. J. Herrmann. Seismic data reconstruction with generative adversarial networks. In *European Association of Geoscientists & Engineers Conference and Exhibition Extended Abstracts*, 2018b  
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- C3. [A. Siahkoohi](#) and A. Gholami. Sparsity promoting least squares migration for laterally inhomogeneous media. In *7th EAGE Saint Petersburg International Conference and Exhibition*, 2016  
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- C2. M. S. Ebrahimi, M. H. Daraei, J. Rezaei, and [A. Siahkoohi](#). A novel utilization of wireless sensor networks as data acquisition system in smart grids. In *Materials Science and Information Technology*, volume 433-440, pages 6725–6730, 2012  
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- C1. A. Najafi, [A. Siahkoohi](#), and M. B. Shamsollahi. A content-based digital image watermarking algorithm robust against JPEG compression. In *IEEE International Symposium on Signal Processing and Information Technology*, pages 432–437, 2011  
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## Theses

- T1. [A. Siahkoohi](#). *Deep generative models for solving geophysical inverse problems*. PhD thesis, **Georgia Institute of Technology**, 2022  
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## Technical Reports

- R4. L. Baldassari, [A. Siahkoohi](#), J. Garnier, K. Sølna, and M. V. de Hoop. Taming score-based diffusion priors for infinite-dimensional nonlinear inverse problems. Technical Report arXiv:2405.15676, Rice University, 2024  
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- R3. M. Louboutin, [A. Siahkoohi](#), R. Wang, and F. J. Herrmann. Low-memory stochastic backpropagation with multi-channel randomized trace estimation. Technical Report arXiv:2106.06998, Georgia Institute of Technology, 2021  
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- R2. [A. Siahkoohi](#), G. Rizzuti, P. A. Witte, and F. J. Herrmann. Faster uncertainty quantification for inverse problems with conditional normalizing flows. Technical Report arXiv:2007.07985, Georgia Institute of Technology, 2020d [pdf] [link] [bib]
- R1. [A. Siahkoohi](#), M. Louboutin, and F. J. Herrmann. Neural network augmented wave-equation simulation. Technical Report arXiv:1910.00925, Georgia Institute of Technology, 2019d  
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## Awards

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### Future Faculty Fellows Award

Rice University, George R. Brown School of Engineering and Computing  
[link]

June 2024  
Houston, TX, USA

## Selected Research Proposal Experience

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### Scientific ML-supported subsurface characterization in physical function spaces

Awarded, 2024

- Funding Source: Occidental Petroleum Corporation, PI: Maarten V. de Hoop
- **Contributions:** Developed ideas and contributed to writing for two of the four research thrusts entitled “Score diffusion, nonlinear operators, and uncertainty quantification in function spaces” and “Unsupervised, factorial data decomposition and hidden signals: Reservoir characterization below salt, denoising, and monitoring”

### Learning and forecasting complex fault dynamics – Predictability of earthquakes

Not funded, 2024

- Funding Source: National Science Foundation, PI: Maarten V. de Hoop
- **Contributions:** Developed ideas and contributed to writing for one of the four research thrusts entitled “Structure in data, clustering, lattice theory, and diffusion models”

### Exploring the local geometry of deep networks

Awarded, 2023

- Funding Source: Office of Naval Research (DURIP), PI: Richard G. Baraniuk
- **Contributions:** Developed ideas and wrote research objectives for one of the three research thrusts entitled “The geometry of deep probabilistic models”

### A deep-learning framework for stable, interpretable, and uncertainty-quantified hybrid modeling of multi-scale complex systems

Not funded, 2023

- Funding Source: Department of Energy, PI: Pedram Hassanzadeh
- **Contributions:** Coordinated efforts within Richard G. Baraniuk’s group (a co-PI) to develop and write research objectives for one of the four research thrusts entitled “Spline operator-based analysis of Deep neural networks”

## **Topological deep learning, causal inference, and data-driven forecasting for subsurface multiscale multiphysics systems**

Awarded, 2022

- Funding Source: Department of Energy, PI: Maarten V. de Hoop
- Contributions: Led the effort to write the annual progress report

## **Mentoring Experience**

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### **Jeffrey J. Sam** [\[link\]](#)

M.Sc. Student, Rice University

2024 – 2025

Houston, TX, USA

**Contributions:** Advised on the design and implementation of experiments for a project in preparation for submission

### **Paul M. Mayer** [\[link\]](#)

Ph.D. Student, Rice University

2022 – 2025

Houston, TX, USA

**Contributions:** Advised on the development of methods and software for two projects and co-authored two papers (Luzi et al., 2024a; Mayer et al., 2024)

### **Rafael Orozco** [\[link\]](#)

Ph.D. Student, Georgia Institute of Technology

2020 – 2022

Atlanta, GA, USA

**Contributions:** Advised on the development of methods and software for main Ph.D. thesis and co-authored four papers (Orozco et al., 2021, 2023b,c, 2025)

### **Mi Zhang** [\[link\]](#)

Visiting Ph.D. Student, China University of Petroleum-Beijing

2019 – 2020

Atlanta, GA, USA

**Contributions:** Advised on the development of methods and software for a project and co-authored a paper (Zhang et al., 2020)

## **Teaching Experience**

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### **Rice University**

Department of Computational Applied Mathematics & Operations Research

Houston, TX, USA

- Numerical Analysis  
Substitute Instructor (12 lectures) Fall 2024
- Numerical Analysis I  
Substitute Instructor (18 lectures) Fall 2022

### **Georgia Institute of Technology**

School of Computational Science and Engineering

Atlanta, GA, USA

- Computational Foundations of Machine Learning  
Teaching Assistant Spring 2022
- Imaging with Data-Driven Models  
Teaching Assistant Fall 2019
- Numerical Analysis I  
Teaching Assistant Fall 2018

### **Sharif University of Technology**

Department of Electrical Engineering

Tehran, Iran

- Digital Signal Processing  
Teaching Assistant Spring 2011
- Signals and Systems  
Teaching Assistant Spring 2011
- Linear Algebra  
Teaching Assistant Spring 2010
- Electrical Engineering: Principles and Laboratory  
Teaching Assistant Fall 2009

# Talks

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## Invited Talks

T22. <b>University of Central Florida</b>	Towards reliable AI: A framework for quantification of AI uncertainty Department of Computer Science	April 2025 Oral presentation
T21. <b>Montana State University</b>	Towards reliable AI: A framework for quantification of AI uncertainty Gianforte School of Computing	March 2025 Oral presentation
T20. <b>The University of California, Santa Barbara</b>	Towards reliable AI: A framework for quantification of AI uncertainty Department of Mechanical Engineering	February 2025 Oral presentation
T19. <b>Johns Hopkins University</b>	Towards reliable AI: A framework for quantification of AI uncertainty Department of Electrical and Computer Engineering	January 2025 Oral presentation
T18. <b>ISCL Seminar Series, Pennsylvania State University</b>	Mitigating biases in self-consuming generative models Interdisciplinary Scientific Computing Laboratory (Dr. Romit Maulik) [video]	November 2024 Virtual oral presentation
T17. <b>CNRS, Université Montpellier</b>	Low-cost uncertainty quantification for large-scale inverse problems RhEoEVOLUTION Group (Dr. Andréa Tommasi)	January 2023 Virtual oral presentation
T16. <b>Workshop on Subsurface Uncertainty Description and Estimation</b>	Reliable amortized variational inference with conditional normalizing flows via physics-based latent distribution correction International Meeting for Applied Geoscience & Energy	August 2022 Oral presentation
T15. <b>Intelligent illumination of the Earth Workshop</b>	Fast and reliability-aware seismic imaging with conditional normalizing flows King Abdullah University of Science and Technology	June 2021 Virtual oral presentation
T14. <b>Advances in Seismic Imaging and Inversion Mini-symposium</b>	Unsupervised data-guided uncertainty analysis in imaging and horizon tracking The 3rd Annual Meeting of the SIAM Texas–Louisiana Section	October 2020 Virtual oral presentation

## Contributed Talks

T19. <b>Geo-Mathematical Imaging Group Partners Meeting, Rice University</b>	Improving fairness and mitigating MADness in generative models	November 2024 Oral presentation
T18. <b>International Conference on Machine Learning</b>	Unearthing InSights into Mars: Unsupervised source separation with limited data	July 2023 Poster presentation
T17. <b>Symposium on Advances in Approximate Bayesian Inference</b>	Refining amortized posterior approximations using gradient-based summary statistics	July 2023 Poster presentation
T16. <b>Geo-Mathematical Imaging Group Partners Meeting, Rice University</b>	Martian time-series unraveled: A multi-scale nested approach with factorial variational autoencoders	May 2023 Oral presentation
T15. <b>Geo-Mathematical Imaging Group Partners Meeting, Rice University</b>	Unearthing InSights into Mars: Unsupervised source separation with limited data	May 2023 Oral presentation

T14. <b>International Meeting for Applied Geoscience &amp; Energy</b> Velocity continuation with Fourier neural operators for accelerated uncertainty quantification	August 2022 Oral presentation
T13. <b>Chrome Media Team, Google</b> Low-bitrate speech coding with Transformers	December 2021 Virtual oral presentation
T12. <b>ML4SEISMIC Partners Meeting, Georgia Institute of Technology</b> Multifidelity conditional normalizing flows for physics-guided Bayesian inference	November 2021 Virtual oral presentation
T11. <b>ML4SEISMIC Partners Meeting, Georgia Institute of Technology</b> Uncertainty quantification in imaging and automatic horizon tracking—A Bayesian deep-prior based approach	November 2021 Virtual oral presentation
T10. <b>Society of Exploration Geophysicists International Exposition and Annual Meeting</b> Learning by example: Fast reliability-aware seismic imaging with normalizing flows [video]	September 2021 Virtual oral presentation
T9. <b>Symposium on Advances in Approximate Bayesian Inference</b> Preconditioned training of normalizing flows for variational inference in inverse problems [video]	January 2021 Prerecorded short oral presentation
T8. <b>European Association of Geoscientists &amp; Engineers Annual Conference &amp; Exhibition</b> 2020 A deep-learning based Bayesian approach to seismic imaging and uncertainty quantification	December Virtual oral presentation
T7. <b>Society of Exploration Geophysicists International Exposition and Annual Meeting</b> Uncertainty quantification in imaging and automatic horizon tracking—A Bayesian deep-prior based approach [video]	October 2020 Virtual oral presentation
T6. <b>Society of Exploration Geophysicists International Exposition and Annual Meeting</b> Weak deep priors for seismic imaging [video]	October 2020 Virtual oral presentation
T5. <b>Society of Exploration Geophysicists Student Chapter, Georgia Tech</b> A deep-learning based Bayesian approach to seismic imaging and uncertainty quantification	February 2020 Oral presentation
T4. <b>HotCSE Seminar, CSE Department, Georgia Institute of Technology</b> Learned imaging with constraints and uncertainty quantification	November 2019 Oral presentation
T3. <b>Society of Exploration Geophysicists International Exposition &amp; Annual Meeting</b> Deep-learning based ocean bottom seismic wavefield recovery	September 2019 Oral presentation
T2. <b>Society of Exploration Geophysicists International Exposition &amp; Annual Meeting</b> Surface-related multiple elimination with deep learning	September 2019 Oral presentation
T1. <b>Society of Exploration Geophysicists International Exposition &amp; Annual Meeting</b> Deep convolutional neural networks in prestack seismic—two exploratory examples	October 2018 Poster presentation

## Professional Service

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### Editorial Service

- ▶ **Acta Geophysica**, Associate Editor  
Applied Geophysics section 2024 – Present
- ▶ **Journal of Mathematics**, Guest Editor  
Special issue on Applied Mathematics in Inverse Problems and Uncertainty Quantification 2023 – 2024

## Conference Organization

- ▶ **International Meeting for Applied Geoscience & Energy**, Session Chair 2022

## Technical Program Committee Member and Reviewer

- ▶ Neural Information Processing Systems (NeurIPS) 2023 – 2025
- ▶ Frontiers in Probabilistic Inference: Sampling Meets Learning (ICLR workshop) 2025
- ▶ International Conference on Machine Learning (ICML) 2024 – 2025
- ▶ Annual AAAI Conference on Artificial Intelligence 2025
- ▶ Artificial Intelligence and Statistics Conference (AISTATS) 2024 – 2025
- ▶ International Conference on Learning Representations (ICLR) 2024 – 2025
- ▶ Advances in Approximate Bayesian Inference (AABI) 2023 – 2024
- ▶ Structured Probabilistic Inference & Generative Modeling (ICML workshop) 2023 – 2024
- ▶ International Speech Communication Association (Interspeech) 2023
- ▶ Deep Generative Models for Health (NeurIPS workshop) 2023
- ▶ International Meeting for Applied Geoscience & Energy 2023

## Journal Reviewer

- ▶ IEEE Transactions on Neural Networks and Learning Systems
- ▶ IEEE Geoscience and Remote Sensing Letters
- ▶ IEEE Transactions on Geoscience and Remote Sensing
- ▶ Notices of the American Mathematical Society (AMS)
- ▶ Remote Sensing
- ▶ Journal of Geophysical Research – Solid Earth
- ▶ Geophysical Prospecting
- ▶ Geophysics
- ▶ Geosciences
- ▶ Entropy

## Industry Research Experience

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- Google** August 2021 – December 2021  
Research Intern (cf. [A. Siahkoohi et al. \(2022b\)](#)) San Francisco, CA, USA  
Chrome Media Team

## Selected Media Coverage

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- AI's Mad Loops** February 2025  
Rice Magazine  
[link]

- AI Appears to Be Slowly Killing Itself** August 2024  
Futurism  
[link]

- When A.I.'s Output Is a Threat to A.I. Itself** August 2024  
The New York Times

[link]

**Breaking MAD: Generative AI could break the internet**

Rice News, Rice University

[link]

July 2024

**'Cesspool of AI crap' or smash hit? LinkedIn's AI-powered collaborative articles offer a sobering peek at the future of content**

Fortune

[link]

April 2024

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