

Ali Siahkoohi

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

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<https://alishahkoohi.github.io>
Last updated: September 16, 2024

Research Interests and Highlights

My research in *scientific machine learning*, under the mentorship of Maarten V. de Hoop and Richard G. Baraniuk, bridges the gap between AI and computational science by developing uncertainty-aware AI methods, primarily based on generative models and amortized inference. These methods incorporate domain-specific knowledge, thereby enhancing the robustness and trustworthiness of AI models in complex, dynamic environments.

I have published 39 peer-reviewed articles (citations: 802, h-index: 17, i10-index: 24), including 17 first-author papers in high-impact journals and conference proceedings, such as NeurIPS, ICML, ICLR, Interspeech, and TMLR.

Education

Georgia Institute of Technology

Ph.D. in Computational Science and Engineering (minor in Applied Math.)
Advised by Felix J. Herrmann

August 2022
Atlanta, GA, USA

University of Tehran

M.Sc. in Geophysics

March 2016
Tehran, Iran

Sharif University of Technology

B.Sc. in Electrical Engineering

August 2013
Tehran, Iran

Academic Appointments

Rice University

Simons Postdoctoral Fellow
Department of Computational Applied Mathematics & Operations Research
Jointly hosted by Maarten V. de Hoop and Richard G. Baraniuk

August 2022 – Present
Houston, TX, USA

Publications

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

In Preparation & Under Review

- P4. A. Siahkoohi, R. Morel, R. Balestrieri, E. Allys, G. Sainton, T. Kawamura, and M. V. de Hoop. Martian time-series unraveled: A multi-scale nested approach with factorial variational autoencoders. Preprint arXiv:2305.16189; under review by *IEEE Transactions on Neural Networks and Learning Systems*, 2024
[pdf] [code] [slides] [bib]
- P3. P. M. Mayer, L. Luzi, A. Siahkoohi, D. H. Johnson, and R. G. Baraniuk. Removing bias from maximum likelihood estimation with model autophagy. Preprint arXiv:2405.13977; under review by *NeurIPS*, 2024
[pdf] [bib]
- P2. L. Baldassari, A. Siahkoohi, J. Garnier, K. Sølna, and M. V. de Hoop. Taming score-based diffusion priors for infinite-dimensional nonlinear inverse problems. Preprint arXiv:2405.15676; under review by *NeurIPS*, 2024
[pdf] [bib]
- P1. R. Orozco, A. Siahkoohi, M. Louboutin, and F. J. Herrmann. ASPIRE: Iterative amortized posterior inference for Bayesian inverse problems. Preprint arXiv:2405.05398; under review by *Inverse Problems*, 2024a
[pdf] [code] [bib]

Journal Publications

- 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, 2024b
[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
[pdf] [link] [bib] [featured in Seismic Soundoff] [journal's most downloaded paper in '23]
- 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
[pdf] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib] [featured in Geophysics Bright Spots]
- J2. [A. Siahkoohi](#), G. Rizzuti, and F. J. Herrmann. Deep Bayesian inference for seismic imaging with tasks. *Geophysics*, 87(5):S281–S302, 2022a
[pdf] [code] [link] [bib]
- 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
[pdf] [code] [link] [bib]

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
[pdf] [extended pdf] [poster] [link] [bib] [featured in the news 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
- 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
[pdf] [code] [link] [bib]
- 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
[pdf] [slides] [poster] [code] [link] [bib] [featured as a Spotlight presentation]
- C29. [A. Siahkoohi](#), R. Morel, M. V. de Hoop, E. Allys, 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
[pdf] [slides] [poster] [code] [link] [bib]
- 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
[pdf] [link] [bib]
- 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
[pdf] [link] [bib]
- 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
[pdf] [link] [bib]
- 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
[pdf] [poster] [bib]
- 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
[pdf] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib]
- 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
[pdf] [slides] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib] [student oral paper honorable mention]
- 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
[pdf] [slides] [code] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib]
- 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
[pdf] [poster] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib]
- 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
[pdf] [code] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib]
- 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

1666–1670, 2020

[pdf] [slides] [code] [link] [bib]

- 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
[pdf] [slides] [code] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib]
- 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
[pdf] [slides] [code] [link] [bib]
- C9. F. J. Herrmann, [A. Siahkoohi](#), and G. Rizzuti. Learned imaging with constraints and uncertainty quantification. In *NeurIPS Deep Inverse Workshop*, 2019
[pdf] [slides] [poster] [link] [bib]
- 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
[pdf] [code] [slides] [link] [bib]
- 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
[pdf] [slides] [link] [bib]
- 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
[pdf] [slides] [link] [bib]
- 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
[pdf] [poster] [link] [bib]
- 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
[pdf] [slides] [link] [bib]
- 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
[pdf] [link] [bib]
- 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
[pdf] [link] [bib]
- 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
[pdf] [link] [bib]

Theses

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

Technical Reports

- 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
[pdf] [code] [link] [bib]
- 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
[pdf] [code] [link] [bib]

Awards

Future Faculty Fellows Award

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

June 2024
Houston, TX, USA

Selected Research Proposal Experience

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

Paul M. Mayer [link]

PhD Student, Rice University

2022 – Present
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]	2020 – 2022
PhD Student, Georgia Institute of Technology	Atlanta, GA, USA
Contributions: Advised on the development of methods and software for main PhD thesis and co-authored four papers (Orozco et al., 2021, 2023b,c, 2024a)	
Mi Zhang [link]	2019 – 2020
Visiting PhD Student, China University of Petroleum-Beijing	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

Rice University	Houston, TX, USA
Department of Computational Applied Mathematics & Operations Research	
▶ Numerical Analysis	Fall 2024
Substitute Instructor	
▶ Numerical Analysis I	Fall 2022
Substitute Instructor (18 lectures)	
Georgia Institute of Technology	Atlanta, GA, USA
School of Computational Science and Engineering	
▶ Computational Foundations of Machine Learning	Spring 2022
Teaching Assistant	
▶ Imaging with Data-Driven Models	Fall 2019
Teaching Assistant	
▶ Numerical Analysis I	Fall 2018
Teaching Assistant	
Sharif University of Technology	Tehran, Iran
Department of Electrical Engineering	
▶ Digital Signal Processing	Spring 2011
Teaching Assistant	
▶ Signals and Systems	Spring 2011
Teaching Assistant	
▶ Linear Algebra	Spring 2010
Teaching Assistant	
▶ Electrical Engineering: Principles and Laboratory	Fall 2009
Teaching Assistant	

Talks

Invited Talks

T22. CNRS, Université Montpellier	January 2023
Low-cost uncertainty quantification for large-scale inverse problems	Virtual oral presentation
RhEoVOLUTION Group (Dr. Andréa Tommasi)	
T21. Workshop on Subsurface Uncertainty Description and Estimation	August 2022
Reliable amortized variational inference with conditional normalizing flows via	Oral presentation
physics-based latent distribution correction	
International Meeting for Applied Geoscience & Energy	
T20. Intelligent illumination of the Earth Workshop	June 2021
Fast and reliability-aware seismic imaging with conditional normalizing flows	Virtual oral presentation
King Abdullah University of Science and Technology	
T19. Advances in Seismic Imaging and Inversion Mini-symposium	October 2020
Unsupervised data-guided uncertainty analysis in imaging and horizon	Virtual oral presentation

Contributed Talks

T18. International Conference on Machine Learning Unearthing InSights into Mars: Unsupervised source separation with limited data	July 2023 Poster presentation
T17. Symposium on Advances in Approximate Bayesian Inference Refining amortized posterior approximations using gradient-based summary statistics	July 2023 Poster presentation
T16. Geo-Mathematical Imaging Group Partners Meeting, Rice University Martian time-series unraveled: A multi-scale nested approach with factorial variational autoencoders	May 2023 Oral presentation
T15. Geo-Mathematical Imaging Group Partners Meeting, Rice University Unearthing InSights into Mars: Unsupervised source separation with limited data	May 2023 Oral presentation
T14. International Meeting for Applied Geoscience & Energy Velocity continuation with Fourier neural operators for accelerated uncertainty quantification	August 2022 Oral presentation
T13. Chrome Media Team, Google Low-bitrate speech coding with Transformers	December 2021 Virtual oral presentation
T12. ML4SEISMIC Partners Meeting, Georgia Institute of Technology Multifidelity conditional normalizing flows for physics-guided Bayesian inference	November 2021 Virtual oral presentation
T11. ML4SEISMIC Partners Meeting, Georgia Institute of Technology Uncertainty quantification in imaging and automatic horizon tracking—A Bayesian deep-prior based approach	November 2021 Virtual oral presentation
T10. Society of Exploration Geophysicists International Exposition and Annual Meeting Learning by example: Fast reliability-aware seismic imaging with normalizing flows [video]	September 2021 Virtual oral presentation
T9. Symposium on Advances in Approximate Bayesian Inference Preconditioned training of normalizing flows for variational inference in inverse problems [video]	January 2021 Prerecorded short oral presentation
T8. European Association of Geoscientists & Engineers Annual Conference & Exhibition A deep-learning based Bayesian approach to seismic imaging and uncertainty quantification	December 2020 Virtual oral presentation
T7. Society of Exploration Geophysicists International Exposition and Annual Meeting Uncertainty quantification in imaging and automatic horizon tracking—A Bayesian deep-prior based approach [video]	October 2020 Virtual oral presentation
T6. Society of Exploration Geophysicists International Exposition and Annual Meeting Weak deep priors for seismic imaging [video]	October 2020 Virtual oral presentation
T5. Society of Exploration Geophysicists Student Chapter, Georgia Tech A deep-learning based Bayesian approach to seismic imaging and uncertainty quantification	February 2020 Oral presentation
T4. HotCSE Seminar, CSE Department, Georgia Institute of Technology Learned imaging with constraints and uncertainty quantification	November 2019 Oral presentation
T3. Society of Exploration Geophysicists International Exposition & Annual Meeting	September 2019

Deep-learning based ocean bottom seismic wavefield recovery	Oral presentation
T2. Society of Exploration Geophysicists International Exposition & Annual Meeting Surface-related multiple elimination with deep learning	September 2019 Oral presentation
T1. Society of Exploration Geophysicists International Exposition & Annual Meeting Deep convolutional neural networks in prestack seismic—two exploratory examples	October 2018 Poster presentation

Professional Service

Editorial Service

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

Conference Organization

- ▶ **Annual AAAI Conference on Artificial Intelligence**, Program Chair 2025
- ▶ **International Meeting for Applied Geoscience & Energy**, Session Chair 2022

Technical Program Committee Member and Reviewer

- ▶ Annual AAAI Conference on Artificial Intelligence 2025
- ▶ Artificial Intelligence and Statistics Conference (AISTATS) 2024 – 2025
- ▶ International Conference on Learning Representations (ICLR) 2024 – 2025
- ▶ Neural Information Processing Systems (NeurIPS) 2023 – 2024
- ▶ Advances in Approximate Bayesian Inference (AABI) 2023 – 2024
- ▶ Structured Probabilistic Inference & Generative Modeling (ICML workshop) 2023 – 2024
- ▶ International Conference on Machine Learning (ICML) 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

Google Research Intern (cf. A. Siahkoohi et al. (2022b)) Chrome Media Team	August 2021 – December 2021 San Francisco, CA, USA
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Selected Media Coverage

AI Appears to Be Slowly Killing Itself Futurism [link]	August 2024
When A.I.'s Output Is a Threat to A.I. Itself The New York Times [link]	August 2024
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
AI's 'mad cow disease' problem tramples into earnings season Yahoo!finance [link]	April 2024
'Mad' AI risks destroying the Information Age The Telegraph [link]	February 2024
When AI Is Trained on AI-Generated Data, Strange Things Start to Happen Futurism [link]	August 2023
Episode 194: Improving integration in machine learning workflows Seismic Soundoff Podcast, Society of Exploration Geophysicists [link]	July 2023
Training AI With Outputs of Generative AI Is Mad CDOtrends [link]	July 2023
AI trained on AI-generated images produce glitches and blurs NewScientist [link]	July 2023
Scientists make AI go crazy by feeding it AI-generated content TweakTown [link]	July 2023
AI Loses Its Mind After Being Trained on AI-Generated Data Futurism [link]	July 2023
Generative AI Goes 'MAD' When Trained on AI-Created Data Over Five Times Tom's Hardware [link]	July 2023
Group Brings Seismic Imaging to Climate-Change Conversations and Beyond College of Computing News, Georgia Institute of Technology [link]	August 2022