

** https://hcig.wse.jhu.edu/ 3400 N Charles St, Barton Hall 214, Baltimore, MD 21218 Curriculum Vitae (Sep. 2025)

Academic Position	Johns Hopkins University, Assistant Professor Department of Electrical and Computer Engineering • Affiliation: Data Science and Artificial Intelligence Institute (DSAI) Center of Imaging Science (CIS) Mathematical Institute for Data Science (MINDS)	Baltimore, USA 2024 - Present
Education and Training	 California Institute of Technology Postdoctoral Research Associate Advisor: Prof. Katherine L. Bouman Fellowship: Computing, Data, and Society Fellow 	Pasadena, USA 2022 - 2024
	 Washington University in St Louis Ph.D. in Computer Science Advisor: Prof. Ulugbek S. Kamilov Thesis: "Integrating Physical Models and Deep Priors for Computation Turner Dissertation Award 2022 — 	St Louis, USA 2018 - 2022 onal Imaging."
	Washington University in St. Louis M.S. in Data Analytics & Statistics	St Louis, USA 2015 - 2017
	Sichuan University B.E. in Electronics and Information Engineering	Chengdu, China 2011 - 2015
Working Experience	Cedars Sinai Hospital Los Angeles, U.S. Clinical Data Research Specialist • Host: Dr. David Ouyang	8/2022 - 7/2023
	Nvidia Inc. Remote, U.S. Research Intern • Host: Dr. Orazio Gallo	5/2021 - 8/2021
	Capacity St. Louis, U.S. Software Developer Intern	5/2017 - 8/2017
Awards and Honors	Rising Star Award Conference on Parsimony and Learning	2025
	Computing, Data, and Society Fellow CMS Department, California Institute of Technology	2024
	Turner Dissertation Award CS Department, Washington University in St. Louis Top in the class	2023
	Honor CS Department, Washington University in St. Louis	2019-2022

• Top 15% in the class

Student Travel Award 2019

NeurIPS

Professional Membership

Professional Society:

IEEE Signal Processing Society, Member

IEEE Signal Processing Society, Student Member 2018 - 2022

Technical Committee:

IEEE SPS Computational Imaging Technical Committee, Member

2022 - present

2022 - present

PUBLICATIONS

Pre-prints ('*' indicates equal contribution)

- 4. J. Alido, T. Li, **Y. Sun**, and L. Tian, "Whitened Score Diffusion: A Structured Prior for Imaging Inverse Problems." Pre-print, arXiv:2505.10311, 2025.
- 3. Y. Wang, V. R. Shi, L. Zhou, R. Chin, Y. Dai, Y. Hu, C. Li, H. Guan, J. Cheng, **Y. Sun**, C. T. Lin, I. Kamel, P. Trivedi, P. Johnson, J. Eng, H. Bai, "Dataset and Benchmark for Enhancing Critical Retained Foreign Object Detection." Pre-print, arXiv:2507.06937, 2025.
- 2. J. Alido, T. Li, **Y. Sun**, and L. Tian, "Whitened Score Diffusion: A Structured Prior for Imaging Inverse Problems." Pre-print, arXiv:2505.10311, 2025.
- 1. Y. Wang, J. Yu, W. Guo, Y. Sun, J. U. Kang, "Super-Resolution Optical Coherence Tomography Using Diffusion Model-Based Plug-and-Play Priors." Technical Report, arXiv:2505.14916, 2025

Journal Publications ('*' indicates equal contribution)

- 16. **Y. Sun**, Z. Wu, Y. Chen, B. T. Feng, and K. L. Bouman, "Provable Probabilistic Imaging using Score-Based Generative Priors." **IEEE Trans. Comput. Imag.**, vol. 10, pp. 1290-1305, 2024
 - \star Poster presentation at the Int. Conf. Comput. Photo. (ICCP 2023) and Conf. Parsi. Learn. (CPAL 2025).
- 15. Z. Wu, T. Yin, Y. Sun, R. Frost, A. V. D. Kouwe, A. V. Dalca, and K. L. Bouman, "Learning Task-Specific Strategies for Accelerated MRI." IEEE Trans. Comput. Imag., vol. 10, pp. 1040-1054, 2024.
- 14. P. Goyes-Peñafiel, E. Vargas, C. V. Correa, Y. Sun, U. S. Kamilov, B. Wohlberg, and H. Arguello, "Coordinate-Based Seismic Interpolation in Irregular Land Survey: A Deep Internal Learning Approach," IEEE Trans. Geo. Rem. Sen., vol. 61, pp. 1-12, 2023.
- 13. R. Liu*, Y. Sun*, J. Zhu, L. Tian, and U. S. Kamilov, "Recovery of Continuous 3D Refractive Index Maps from Discrete Intensity-Only Measurements using Neural Fields." Nature Machine Intelligence, vol. 4, pp. 781–791, 2022.
 - * High-impact journal [5-Year Impact Factor = 26.4].
- 12. W. Gan, Y. Sun, C. Eldeniz, J. Liu, H. An, and U. S. Kamilov, "Deformation-Compensated Learning for Image Reconstruction without Ground Truth," IEEE Trans. Med. Imag., vol. 41, no. 9, pp. 2371-2384, 2022.
- 11. **Y. Sun**, J. Liu, M. Xie, B. Wohlberg, and U. S. Kamilov, "CoIL: Coordinate-based Internal Learning for Tomographic Imaging." **IEEE Trans. Comput. Imag**, vol. 7, pp. 1400-1412, 2021
- J. Liu, Y. Sun, W. Gan, X. Xu, B. Wohlberg, and U. S. Kamilov, "SGD-Net: Efficient Model-Based Deep Learning with Theoretical Guarantees." IEEE Trans. Comput. Imag., vol. 7, pp. 598-610, June 2021

- 9. **Y. Sun***, Z. Wu*, X. Xu*, B. Wohlberg, and U. S. Kamilov, "Scalable Plug-and-Play ADMM with Convergence Guarantees." **IEEE Trans. Comput. Imag.**, vol. 7, pp. 849-863, July 2021.
- 8. M. Torop, S. Kothapalli, **Y. Sun**, J. Liu, S. Kahali, D. A. Yablonskiy, and U. S. Kamilov, "Deep learning using a biophysical model for Robust and Accelerated Reconstruction (RoAR) of quantitative and artifact-free R2* images." **Magn. Reson. Med.**, vol. 84, pp. 2932-2942, 2020.
- 7. X. Xu, Y. Sun, J. Liu, B. Wohlberg, and U. S. Kamilov, "Provable Convergence of Plug-and-Play Priors with MMSE denoisers." IEEE Signal Process. Lett., vol. 27, pp. 1280-1284, 2020.
- G. Song, Y. Sun, J. Liu, and U. S. Kamilov, "A New Recurrent Plug-and-Play Prior Based on the Multiple Self-Similarity Network." IEEE Signal Process. Lett., vol. 27, pp. 451-455, 2020.
- 5. J. Liu, Y. Sun, C. Eldeniz, W. Gan, H. An, and U. S. Kamilov, "RARE: Image Reconstruction using Deep Priors Learned without Ground Truth." IEEE J. Sel. Topics Signal Process., vol. 14, no. 6, pp. 1088-1099, 2020.
- 4. Z. Wu, Y. Sun, A. Matlock, J. Liu, L. Tian, and U. S. Kamilov, "SIMBA: Scalable Inversion in Optical Tomography using Deep Denoising Priors." IEEE J. Sel. Topics Signal Process., vol. 14, no. 6, pp. 1163-1175, 2020.
 - ★ Poster presentation at the Int. Conf. Image Proces. (ICIP 2021).
- 3. **Y. Sun***, J. Liu*, and U. S. Kamilov, "Block Coordinate Regularization by Denoising," **IEEE Trans. Comput. Imag.**, vol. 6, pp. 908-921, 2020.
- 2. **Y. Sun**, B. Wohlberg, and U. S. Kamilov, "An Online Plug-and-Play Algorithm for Regularized Image Reconstruction." **IEEE Trans. Comput. Imag.**, vol.5, no.3, pp.395-408, 2019.
- 1. **Y. Sun**, Z. Xia, and U. S. Kamilov, "Efficient and Accurate Inversion of Multiple Scattering with Deep Learning," **Optics Express**, vol.26, no.11, pp.14678-14688, 2018.

Conference Publications ('*' indicates equal contribution)

- 19. Y. Wang, H. Jung, D. Peng, Y. Dai, J. Wu, H. Guan, Y. Kato, Z. Jiao, Y. Sun, I. Kamel, J. Lima, C. T. Lin, and H. Bai, "Self-Supervised Contrastive Learning for Cardiac MR Sequence Classification." MICCAI 2025 Workshop on Multimodal Learning and Fusion Across Scales for Clinical Decision Support (ML-CDS 2025), in press.
- 18. Y. Gao, W. Guo, and Y. Sun, "Neural Inverse Scattering with Score-Based Regularization." Proc. IEEE Conf. Comput. Imaging using Synthetic Apertures (CISA 2025), in press.

 * Oral presentation.
- 17. H. Zheng, W. Chu, B. Zhang, Z. Wu, A. Wang, B. Feng, C. Zou, Y. Sun, N. B. Kovachki, Z. E Ross, K. Bouman, and Y. Yue, "InverseBench: Benchmarking Plug-and-Play Diffusion Models for Scientific Inverse Problems." Proc. Int. Conf. Learning Representation (ICLR 2025), in press.
 - * Spotlight presentation [Acceptance Rate: 587/11500 = 5.1%].
- 16. Z. Wu, Y. Sun, Y. Chen, B. Zhang, Y. Yue, and K. L. Bouman, "Principled Probabilistic Imaging using Diffusion Models as Plug-and-Play Priors." Adv. in Neural Information Processing Systems (NeurIPS 2024), pp. 118389-118427, Vancouver, Canada, Dec. 10-15.
 - * Poster presentation [Acceptance Rate: 4043/15671 = 25.8%].
- 15. W. Shangguan*, Y. Sun*, W. Gan, and U. S. Kamilov, "Learning Cross-Video Neural Representations for High-Quality Frame Interpolation." Proc. European Conference on Computer Vision (ECCV 2022), pp. 511-528, Tel Aviv, Israel, October 23-27.
 - * Poster presentation [Acceptance rate: 1492/5803 = 26%].

- 14. M. Xie*, J. Liu*, **Y. Sun**, B. Wohlberg, U. S. Kamilov, "Joint Reconstruction and Calibration using Regularization by Denoising." Proc. IEEE/CVF Int. Conf. Computer Vision Workshops (**ICCVW 2021**), October 11-17.
- 13. J. Liu, Y. Sun, W. Gan, X. Xu, B. Wohlberg, and U. S. Kamilov, "Stochastic Deep Unfolding for Imaging Inverse Problems," Proc. IEEE Int. Conf. Acoustics, Speech and Signal Process (ICASSP 2021), pp. 1395-1399, Toronto, Canada, June 6-11.
- 12. W. Gan, Y. Sun, C. Eldeniz, J. Liu, H. An, and U. S. Kamilov, "Deep Image Reconstruction for MRI using Unregistered Measurement Pairs without Ground Truth," Proc. Int. Soc. of Magnetic Resonance in Medicine (ISMRM 2021), p. 1959, May 15-20.
- 11. **Y. Sun**, J. Liu, Y. Sun, B. Wohlberg, and U. S. Kamilov, "ASYNC-RED: A Provably Convergent Asynchronous Block Parallel Stochastic Method using Deep Denoising Priors." Proc. Int. Conf. Learning Representation (**ICLR 2021**), Vienna, Austria, May 4-8.
 - ★ Spotlight presentation [Acceptance Rate: 114/2997 = 4%].
- 10. W. Gan, Y. Sun, C. Eldeniz, H. An and U. S. Kamilov, "Deep Image Reconstruction using Unregistered Measurements without Groundtruth." Proc. Int. Symp. Biomedical Imaging 2021 (ISBI 2021), pp. 1531-1534, Nice, France, April 13-16.
- 9. X. Xu, J. Liu, Y. Sun, B. Wohlberg, and U. S. Kamilov, "Boosting the Performance of Plug-and-Play Priors via Denoiser Scaling," Proc. 54th Asilomar Conf. Signals, Systems, & Computers (ACSSC 2020), pp. 1305-1312, Pacific Grove, CA, November 1–5.
- 8. J. Liu, C. Eldeniz, **Y. Sun**, W. Gan, S. Chen, H. An, and U. S. Kamilov, "RED-N2N: Image Reconstruction for MRI using Deep CNN Priors Trained without Ground Truth," Proc. Int. Soc. of Magnetic Resonance in Medicine (**ISMRM 2020**), p. 993, August 8-14.
- 7. J. Liu, **Y. Sun**, and U. S. Kamilov, "Infusing Learned Priors into Model-Based Multispectral Imaging," IEEE Int. Workshop on Computational Advances in Multi-Sensor Adaptive Processing (**CAMSAP 2019**), Guadeloupe, France, December 15-18.
- Y. Sun, J. Liu, and U. S. Kamilov, "Block Coordinate Regularization by Denoising," Adv. in Neural Information Processing Systems (NeurIPS 2019), pp. 382-392, Vancouver, Canada, Dec 8-14.
 - * Poster presentation [Acceptance Rate: 1428/6743 = 21%].
- Z. Wu, Y. Sun, J. Liu, and U. S. Kamilov, "Online Regularization by Denoising with Application to Phase Retrieval," Proc. IEEE/CVF Int. Conf. Computer Vision Workshops (ICCVW 2019), pp. 3887-3895, Seoul, Korea, October 27-November 2.
- J. Liu, Y. Sun, X. Xu, and U. S. Kamilov, "Image Restoration using Total Variation Regularized Deep Image Prior," Proc. IEEE Int. Conf. Acoustics, Speech and Signal Process. (ICASSP 2019), pp.7715-7719, Brighton, UK, May 12-17.
- 3. **Y. Sun**, S. Xu, Y. Li, L. Tian, B. Wohlberg, and U. S. Kamilov, "Regularized Fourier Ptychography using an Online Plug-and-Play Algorithm," Proc. IEEE Int. Conf. Acoustics, Speech and Signal Process. (**ICASSP 2019**), pp.7665-7669, Brighton, UK, May 12-17.

 * Oral presentation.
- 2. **Y. Sun**, B. Wohlberg, and U. S. Kamilov, "Plug-In Stochastic Gradient Method," Proc. Int. Biomedical and Astronomical Signal Processing Frontiers Workshop (**BASP 2019**), p.75, Villars-sur-Ollon, Switzerland, February 3-8.
- 1. **Y. Sun** and U. S. Kamilov, "Stability of Scattering Decoder For Nonlinear Diffractive Imaging," Proc. 4th Int. Traveling Workshop on Interactions between Sparse models and Technology (**iTWIST 2018**), p.31, Marseille, France, November 21-23.
 - * Oral presentation.

Invited	Conference, Workshop & Seminar Talks:	
TALKS	Rising Star Presentation, CPAL Palo Alto, U.S. Invited by CPAL Program Committee	3/2025
	Deep Reconstruction Workshop Baltimore, U.S. Invited by <i>Prof. Webster Stayman</i>	3/2025
	F.M. Kirby Center Seminar, Johns Hopkins University Baltimore, U.S. Invited by <i>Prof. Hanzhang Lu</i>	1/2025
	Imaging Seminar, Purdue University West Lafayette, U.S. Invited by <i>Prof. Stanly Chan</i>	10/2024
	MINDS Seminar, Johns Hopkins University Baltimore, U.S. Invited by <i>Prof. Rama Chellappa</i>	10/2024
	ECE Seminar, Johns Hopkins University Baltimore, U.S. Invited by <i>Prof. Sijia Geng</i>	10/2024
	Computational Imaging Workshop, IMSI, UChicago Chicago, U.S. Invited by <i>Prof. Ulugbek Kamilov</i>	8/2024
	SIAM Conference on Imaging Science Atlanta, U.S. Invited by Prof. Wenjing Liao, Prof. Ju Sun, Prof. Zhizhen Zhao	5/2024
	ECE Seminar, Johns Hopkins University Baltimore, U.S. Invited by <i>Prof. Pablo Iglesias</i>	3/2024
	CSE College Seminar, Georgia Tech Atlanta, U.S. Invited by <i>Prof. Duen Horng Chau</i>	3/2024
	EI Computational Imaging XXII San Francisco, U.S. Invited by <i>Prof. Charles Bouman</i>	1/2024
	EI Implicit Neural Representations for Inverse Imaging San Francisco, U.S. Invited by <i>Dr. Aditya Mohan</i>	1/2024
	Computational Camera and Display Workshop, CVPR New Orleans, U.S. Invited by <i>Prof. Emma Alexander</i>	7/2022
	Imaging & Vision Seminar, Rice University Remote Invited by <i>Dr. Dushyant Mehra</i>	7/2022
	Research Group Talks:	
	Yi Lab Johns Hopkins University Invited by <i>Prof. Ji Yi</i>	11/2024
	AI for Engineering and Medicine Lab Johns Hopkins University	10/2024

Imaging & Vision Seminar, Rice University | Remote Invited by Dr. Dushyant Mehra Research Group Talks: Yi Lab | Johns Hopkins University Invited by Prof. Ji Yi AI for Engineering and Medicine Lab | Johns Hopkins University Invited by Prof. Rama Chellappa Fazlyab Lab | Johns Hopkins University Invited by Prof. Mahyar Fazlyab Computational Biophotonics Lab | Johns Hopkins University Invited by Prof. Nick Durr

Biophotonics Imaging Technology Lab Johns Hopkins University Invited by <i>Prof. Xingde Li</i>	10/2024
Intelligence Optical Imaging and Vision Lab Johns Hopkins University Invited by <i>Prof. Jin Kang</i>	10/2024
Signals, Learning, and Imaging Research Group Michigan State University Invited by <i>Prof. Sai Ravishankar</i>	9/2024
Stanford Computational Imaging Lab Stanford University Invited by <i>Prof. Gordon Wetzstein</i>	1/2022
Computational Imaging Systems Lab Boston University Invited by <i>Prof. Lei Tian</i>	12/2021
Image Science Lab Carnegie Mellon University Invited by Prof. Aswin Sankaranarayanan	12/2021
Computational Cameras Group California Institute of Technology Invited by <i>Prof. Katie Bouman</i>	10/2021
Organizers for:	
IEEE Computational Imaging Using Synthetic Apertures (CISA) Albany, NY Chair of the Technical Committee	2026
IEEE ICASSP, Special Session Hyderabad, India Theme: 'Computational Imaging in the Age of Generative AI'	2025
Journal Editors for:	
IEEE Open Journal of Signal Processing, Consultant Associate Editor	2022 - present
IEEE Open Journal of Signal Processing, Consultant Associate Editor Special Issue of Journal of Mathematical Imaging and Vision, Guest Editor	2022 - present 2025
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Special Issue of Journal of Mathematical Imaging and Vision, Guest Editor	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for:	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for: Nature Communications (Nat. Commun)	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ)	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Journal of Selected Topics in Signal Processing (JSTSP)	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Journal of Selected Topics in Signal Processing (JSTSP) IEEE Transactions on Computational Imaging (TCI)	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Journal of Selected Topics in Signal Processing (JSTSP) IEEE Transactions on Computational Imaging (TCI) IEEE Transactions on Medical Imaging (TMI)	•
Special Issue of Journal of Mathematical Imaging and Vision, <i>Guest Editor</i> Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Journal of Selected Topics in Signal Processing (JSTSP) IEEE Transactions on Computational Imaging (TCI) IEEE Transactions on Medical Imaging (TMI) IEEE Transactions on Signal Processing (TSP)	•
Special Issue of Journal of Mathematical Imaging and Vision, Guest Editor Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Journal of Selected Topics in Signal Processing (JSTSP) IEEE Transactions on Computational Imaging (TCI) IEEE Transactions on Medical Imaging (TMI) IEEE Transactions on Signal Processing (TSP) IEEE Transactions on Image Processing (TIP)	•
Special Issue of Journal of Mathematical Imaging and Vision, Guest Editor Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Journal of Selected Topics in Signal Processing (JSTSP) IEEE Transactions on Computational Imaging (TCI) IEEE Transactions on Medical Imaging (TMI) IEEE Transactions on Signal Processing (TSP) IEEE Transactions on Image Processing (TIP) IEEE Signal Processing Letters (SPL)	•
Special Issue of Journal of Mathematical Imaging and Vision, Guest Editor Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Journal of Selected Topics in Signal Processing (JSTSP) IEEE Transactions on Computational Imaging (TCI) IEEE Transactions on Medical Imaging (TMI) IEEE Transactions on Signal Processing (TSP) IEEE Transactions on Image Processing (TIP) IEEE Signal Processing Letters (SPL) SIAM Journal on Imaging Sciences (SIIMS)	•
Special Issue of Journal of Mathematical Imaging and Vision, Guest Editor Journal Reviewers for: Nature Communications (Nat. Commun) OSA Optica Biophysical Journal (BJ) IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Journal of Selected Topics in Signal Processing (JSTSP) IEEE Transactions on Computational Imaging (TCI) IEEE Transactions on Medical Imaging (TMI) IEEE Transactions on Signal Processing (TSP) IEEE Transactions on Image Processing (TIP) IEEE Signal Processing Letters (SPL) SIAM Journal on Imaging Sciences (SIIMS) SIAM Journal on Scientific Computing (SISC)	•

Academic Services SPIE Journal on Electronic Imaging (JEI)

Conference Area Chairs for:

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

Conference Reviewer/PCs for:

International Conference on Learning Representations (ICLR)

International Conference on Machine Learning (ICML)

Neural Information Processing Systems (NeurIPS)

Computer Vision and Pattern Recognition (CVPR)

European Conference on Computer Vision (ECCV)

International Conference on Computational Photography (ICCP)

International Joint Conference on Artificial Intelligence (IJCAI)

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

IEEE International Symposium on Biomedical Imaging (ISBI)

University Service

Committees:

IHU ECE Graduate Student Committee

2024-Present

Doctoral/Graduate Board Oral Exams:

Esther Whang, BME Department

5/2025

Title: "Fast Two-photon Microscopy by Neuroimaging with Oblong Random Acquisition"

Aniket Roy, CS Department

12/2024

Title: "Learning More from Less: Resource-Constrained Generative AI for Classification, Generation, and Personalization"

Doctoral Thesis Committee:

Linh Hoang, BME Department, Johns Hopkins University

08/2025

In progress: Proposal made.

Jeffrey Alido, ECE Department, Boston University

06/2025

Title: "Deep Learning Approaches for Imaging Inverse Problems with Structured Noise"

TEACHING

Johns Hopkins University:

Computational Imaging, EN.520.458/658. Spring 2025, Fall 2025.

Previously Taught at Washington University in St. Louis (As Teaching Assistant):

Sparse Model for Imaging, CSE 585T. Fall 2018.

Optimization, ESE 415. Fall 2018, Spring 2019, Spring 2020.

Cloud Computing and Big Application, CSE 427S. Fall 2016, Spring 2017, Fall 2017.

MENTORSHIP

Postdoctoral Researcher:

Deliang Wei (Ph.D. from ECNU, 2025-present)

Ph.D. Students:

Evan Bell (Ph.D. ECE, 2025-present)

Wenhan Guo (Ph.D. ECE, 2025-present)

M.S./B.S. Students:

Haoyue Guan (M.S. CS, 2025-present)

Yetao He (M.S. BME, 2025-present)

Yuan Gao (M.S. HSI, 2024-present)

Yuanyun Hu (M.S. BME, 2024-2025) Now M.S. student at Tsinghua U.

Guannan He (M.S. ECE, 2024-2025) Now Ph.D. student at Wake Forest U.

Xinmin Shen (B.S. AMS, 2024)

Xinyao Shao (M.S. ECE, 2024)

Bingyan Liang (M.S. DS, 2024, University of Wisconsin-Madison)

Previous Students at California Institute of Technology (Co-advised with Prof. Bouman):

Zihui Wu (Ph.D. CMS, 2022-2024)

Now at Jump Trading

Heriniaina Rajaoberison (M.S. CMS, 2022-2024)

Zijun Deng (B.S. CMS, 2023-2024)

Now Ph.D. student at Georgia Tech

Previous Students at Washington University in St. Louis (Co-advised with Prof. Kamilov):

Wentao Shangguan (M.S. CSE, 2021-2022) Now Ph.D. student at Boston U.

Renhao Liu (B.S./M.S. CSE, 2021-2022)

Now at Google Inc.

Mingyang Xie (B.S. CSE, 2019-2021)

Now Ph.D. at U. Maryland

Yiran Sun (M.S. CSE, 2021)

Weijie Gan (M.S. CSE, 2019-2021) Now Ph.D. at Wash U.

Zihui Wu (B.S. CSE, 2018-2020)

Max Torop (M.S. CSE, 2019-2020) Now Ph.D. at Northeastern U.

Shiqi Xu (M.S. ESE, 2018-2019)

Jiaming Liu (M.S. ESE, 2018-2019) Ph.D. at Wash. U, Postdoc at Stanford U.

Zach Pewitt (M.S. ESE, 2018)

Joseph Han (M.S. ESE 2018)

Jialong Zhang (M.S. ESE, 2018)

Fangying Zhai (M.S. ESE, 2018)

Chunyuan Li (M.S. CSE, 2018)

Now Ph.D. at Duke U.

Now Ph.D. at Rice U.

Now Ph.D. at Caltech

Now at Boeing

Now at Deloitte

Now at Schlumberger

Now at Google Inc.