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Evan Bell

Education

Johns Hopkins University 2025–present
PhD in Electrical and Computer Engineering
Advised by Yu Sun

Michigan State University 2020–2024
BS in Mathematics, Advanced, *with High Honor*
BS in Physics, *with High Honor*
Minor in Computational Mathematics, Science, and Engineering
Minor in Chinese
GPA: 4.00/4.00

Research Experience

Johns Hopkins University

Graduate Research Assistant 2025–present
Advisor: Yu Sun

Los Alamos National Laboratory

Post-baccalaureate Researcher 2024–2025
Mentors: Marc Klasky and Daniel Serino

Summer Research Intern Summer 2023
Mentors: Marc Klasky and Michael McCann

Michigan State University

Undergraduate Research Assistant 2021–2024
Advisor: Saiprasad Ravishankar

Mathematics REU Participant Summer 2021
Mentors: Teena Gerhardt and Matthew Hedden

Professorial Assistant 2020–2021
Mentor: Yang Yang

Papers

***** indicates equal contribution***

Preprints

2. **E. Bell**, D.A. Serino, B.S. Southworth, T. Wilcox, and M.L. Klasky. "Learning robust parameter inference and density reconstruction in flyer plate impact experiments." arXiv preprint arXiv:2506.23914 (2025).
1. I. Alkhouri*, **E. Bell***, A. Ghosh*, S. Liang, R. Wang, and S. Ravishankar. "Understanding untrained deep models for inverse problems: Algorithms and theory." arXiv preprint arXiv:2502.18612 (2025).

Journal Articles

2. D.A. Serino, **E. Bell**, M. Klasky, B.S. Southworth, B. Nadiga, T. Wilcox, and O. Korobkin. "Physics consistent machine learning framework for inverse modeling with applications to ICF capsule implosions." **Scientific Reports** 15, no. 1 (2025): 25915.
1. S. Liang*, **E. Bell***, Q. Qu, R. Wang, and S. Ravishankar. "Analysis of Deep Image Prior and Exploiting Self-Guidance for Image Reconstruction." **IEEE Transactions on Computational Imaging** (2025).

Conference Proceedings

4. S. Liang*, **E. Bell***, A. Ghosh, and S. Ravishankar. "Pruning Unrolled Networks (PUN) at Initialization for MRI Reconstruction Improves Generalization." In 2024 58th **Asilomar Conference on Signals, Systems, and Computers**, pp. 100-104. IEEE, 2024.

3. I. Alkhouri*, S. Liang*, **E. Bell**, Q. Qu, R. Wang, and S. Ravishankar. "Image Reconstruction via Autoencoding Sequential Deep Image Prior." **Advances in Neural Information Processing Systems** 37 (2024): 18988-19012.
2. **E. Bell**, M.T. McCann, and M. Klasky. "Supervised Reconstruction for Silhouette Tomography." **Electronic Imaging** 36 (2024): 1-6.
1. **E. Bell***, S. Liang*, Q. Qu, and S. Ravishankar. "Robust Self-Guided Deep Image Prior." In ICASSP 2023-2023 **IEEE International Conference on Acoustics, Speech and Signal Processing** (ICASSP), pp. 1-5. IEEE, 2023.

Awards and Honors

DOE Computational Science Graduate Fellowship (CSGF)	2025–2029
NSF Graduate Research Fellowship (GRFP)	2025, declined
Michigan State University Alumni Distinguished Scholarship – MSU's most competitive scholarship (15 per class of $\sim$10,000 students)	2020–2024
Michigan State University Board of Trustees Award	2024
Dr. Paul and Wilma Dressel Endowed Scholarship	2022, 2024
Dr. Marshall and Barbara Hestenes Endowed Scholarship	2023
R.E. Phillips Memorial Scholarship	2021
Best Presentation Award, LANL Theoretical Division Student Symposium	2023
Third Prize, MSU Herzog Problem Solving Competition	2023

Academic Service

Journal Reviewer: IEEE TCI, IEEE JSTSP
Conference Reviewer: IEEE ICASSP, IEEE IJCNN

Institutional Service

MSU Undergraduate Studies Committee Student Representative	2022–2024
MSU Math Dept. "Discovering America" Program Student Leader – Led outings and social events for a group of $\sim$20 exchange students	2023–2024
MSU Data Science Conference Student Volunteer	2022, 2023

Teaching

Michigan State University (as Teaching Assistant)
MTH 317H: Honors Linear Algebra — Fall 2022

Mentoring

Michigan State University
Clara Linjewile, BS in Data Science (with Sai Ravishnakar) — 2024–2025
Anthony Sun, BS in CS at Univ. of Michigan (with Sai Ravishnakar, Avrajit Ghosh) — 2024–2025

Skills

Languages: English (native), Mandarin Chinese (elementary)
Programming Languages: `Python, C++, MATLAB, R`