Alex Jordan

Experience

PhD Research Assistant
Massachusetts Institute of Technology
Sep 2021 – Present
Cambridge, MA, USA

- Develop novel deep learning architectures for computer vision applications in autonomous systems
- Published 6 first-author papers in top-tier conferences (CVPR, ICCV, NeurIPS)
- Collaborated with industry partners including Tesla and Waymo on real-world deployment
- Mentored 4 undergraduate researchers and 2 Master's students on computer vision projects

Research Intern
Google Research
Jun 2023 – Sep 2023
Mountain View, CA, USA

- Worked on large-scale vision transformer architectures for image understanding
- Developed efficient training techniques reducing compute requirements by 30%
- Contributed to open-source codebase with over 1000 GitHub stars

Machine Learning Engineer
VisionTech AI
Jan 2020 – Aug 2021
San Francisco, CA, USA

- Built production ML pipelines processing 10M+ images daily
- Led team of 3 engineers developing real-time object detection systems
- Improved model accuracy by 15% while reducing latency by 40%

Education

Ph.D. in artificial intelligence
Massachusetts Institute of Technology
Sep 2021 – Present
Cambridge, MA, USA

- Research focus: reinforcement learning, multi-agent systems, and robotics

M.Sc. in computer science
Stanford University
Sep 2018 – Jun 2020
Stanford, CA, USA

- Graduated with distinction, GPA 4.0/4.0; top 2% of class

B.Sc. in computer science and engineering
University of Oxford
Oct 2015 – Jun 2018
Oxford, UK

- Final grade: First-Class Honours

Publications

A. Jordan, M. Rodriguez, D. Kim, S. Chen (2024). "Efficient Vision Transformers for Real-Time Object Detection". *Conference on Computer Vision and Pattern Recognition (CVPR).*

A. Jordan, J. Liu, M. Zhang (2024). "Adversarial Robustness in Deep Neural Networks: A Geometric Perspective". *International Conference on Computer Vision (ICCV)*.

A. Jordan, R. Wilson, L. Thompson (2023). "Self-Supervised Learning for Visual Representation in Autonomous Systems". *Neural Information Processing Systems (NeurIPS)*.

E. Davis, **A. Jordan**, J. Brown, A. Garcia (2023). "Federated Learning Approaches for Privacy-Preserving Computer Vision". *International Conference on Machine Learning (ICML)*.

A. Jordan, K. Lee (2022). "Automated Neural Architecture Search for Edge Computing Devices". *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*.

A. Jordan, P. Martinez, S. Johnson (2022). "Multimodal Fusion Techniques for Robust Scene Understanding". *European Conference on Computer Vision (ECCV)*.

A. Jordan, R. Green (2021). "Novel Attention Mechanisms for Scalable Image Processing". *International Conference on Learning Representations (ICLR)*.

Supervision

Emma Chen (Master thesis), Adversarial Training Techniques for Robust Image Classification — 2024

David Park (Master thesis), Efficient Neural Architecture Search for Mobile Computer Vision — 2024

Sophie Williams (Undergraduate research), Self-Supervised Learning for Visual Representation — 2023

James Liu (Master thesis), Federated Learning in Computer Vision Applications — 2023

Maria Garcia (Undergraduate research), Attention Mechanisms in Vision Transformers — 2023

Kevin Thompson (Research assistant), Multi-modal Fusion for Autonomous Driving — 2022

Teaching

MIT (CS229): Machine Learning – Teaching Assistant — Fall 2023, Spring 2024

MIT (6.869): Advanced Computer Vision Seminar – Teaching Assistant — Fall 2022, Fall 2023

MIT (6.S191): Deep Learning Systems Laboratory – Lab Instructor — Spring 2022, Spring 2023

MIT (6.UAR): Undergraduate Research Mentorship Program – Mentor — 2022-2024

Awards & Scholarships

Outstanding Graduate Student Award, MIT Department of Electrical Engineering and Computer Science – Recognizing exceptional research contributions in computer vision and machine learning — 2024

Best Paper Award, Conference on Computer Vision and Pattern Recognition (CVPR) – For 'Efficient Vision Transformers for Real-Time Object Detection' 2024

Google PhD Fellowship, Google Research – Full funding for PhD research in machine learning and computer vision 2022

NSF Graduate Research Fellowship, National Science Foundation – Three-year fellowship supporting graduate study in computer science 2021

Phi Beta Kappa, University of California, Berkeley – Honor society recognizing academic excellence 2018

Reviewer

Conference on Computer Vision and Pattern Recognition (CVPR) 2024

International Conference on Computer Vision (ICCV) 2023

Neural Information Processing Systems (NeurIPS) 2023

International Conference on Machine Learning (ICML) 2022

IEEE Transactions on Pattern Analysis and Machine Intelligence 2024

Memberships

Student Representative Sep 2022 – Sep 2023
MIT Graduate Student Council Cambridge, MA, USA

- Represented PhD students in department-wide policy decisions
- Organized monthly seminars and networking events for 200+ graduate students

Volunteer Mentor Jan 2020 – Present
Girls Who Code Remote

- Mentor high school students interested in computer science and AI
- Conduct monthly workshops on machine learning fundamentals

Member Aug 2018 – Present
Association for Computing Machinery (ACM) Remote

Talks

Efficient Vision Transformers for Edge Computing, MIT CSAIL Student Seminar Mar 2024

Adversarial Robustness in Deep Learning: Theory and Practice, Google Research AI Seminar Aug 2023

Self-Supervised Learning for Computer Vision, Stanford AI Lab Colloquium May 2023

Neural Architecture Search for Mobile Applications, Conference on Computer Vision and Pattern Recognition (CVPR) - Poster Session Jun 2022

Introduction to Deep Learning for Computer Vision, Berkeley AI Research (BAIR) Workshop Nov 2021

Skills

Programming Python, C++, Java, JavaScript, Go

ML/AI Frameworks	PyTorch, TensorFlow, JAX, Hugging Face, OpenCV
Tools & Platforms	Docker, Kubernetes, AWS, Git, Linux
Databases	PostgreSQL, MongoDB, Redis, Elasticsearch