Brandon Amos

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Current Positions

Research Scientist, Meta, Fundamental Al Research (FAIR), New York City Visiting Lecturer, Cornell Tech, New York City	2019 – Present 2024 – Present	
Education		
Ph.D. in Computer Science , Carnegie Mellon University (0.00/0.00) Thesis: Differentiable Optimization-Based Modeling for Machine Learning	2014 – 2019	

B.S. in Computer Science, *Virginia Tech* (3.99/4.00)

2011 - 2014

Previous Positions

Advisor: J. Zico Kolter

Research Assistant, Carnegie Mellon University (with J. Zico Kolter on ML and optimization)	2016 – 2019
Research Intern, Intel Labs, Santa Clara (with Vladlen Koltun on computer vision)	2018
Research Intern, Google DeepMind, London (with Nando de Freitas and Misha Denil on RL)	2017
Research Assistant, Carnegie Mellon University (with Mahadev Satyanarayanan on mobile systems)	2014 - 2016
Research Intern, Adobe Research, San Jose (with David Tompkins on distributed systems)	2014
Research Assistant, Virginia Tech (with Layne Watson and David Easterling on optimization)	2013 - 2014
Research Assistant, Virginia Tech (with Jules White and Hamilton Turner on mobile systems)	2012 - 2014
Research Assistant, Virginia Tech (with Binoy Ravindran and Alastair Murray on compilers)	2012 - 2014
Software Intern, Snowplow (Scala development)	2013 - 2014
Software Intern, Qualcomm, San Diego (Python and C++ development)	2013
Software Intern , <i>Phoenix Integration</i> , Virginia (C++, C#, and Java development)	2012
Network Administrator Intern, Sunapsys, Virginia	2011

Honors & Awards

NeurIPS Top Reviewer	2022
ICML Outstanding Reviewer	2022
ICLR Outstanding Reviewer	2019
NSF Graduate Research Fellowship	2016 - 2019
Nine undergraduate scholarships	2011 - 2014

Roanoke County Public Schools Engineering, Salem-Roanoke County Chamber of Commerce, Papa John's, Scottish Rite of Freemasonry, VT Intelligence Community Conter for Academic Excellence, VT Pamplin Leader, VT Benjamin F. Bock, VT Gay B. Shober, VT I. Luck Gravett

Publications [Google Scholar: 9k+ citations and an h-index of 37]

Selected publications I am a primary author on are highlighted.

1. AdvPrompter: Fast Adaptive Adversarial Prompting for LLMs [code] Anselm Paulus*, Arman Zharmagambetov*, Chuan Guo, Brandon Amos[†], and Yuandong Tian[†] arXiv 2024

- Neural Optimal Transport with Lagrangian Costs [code]
 Aram-Alexandre Pooladian, Carles Domingo-Enrich, Ricky T. Q. Chen, and Brandon Amos UAI 2024
- Learning to Warm-Start Fixed-Point Optimization Algorithms [code]
 Rajiv Sambharya, Georgina Hall, Brandon Amos, and Bartolomeo Stellato
 JMLR 2024
- 4. Unlocking Tokens as Data Points for Generalization Bounds on Larger Language Models Sanae Lotfi, Yilun Kuang, Marc Anton Finzi, **Brandon Amos**, Micah Goldblum, and Andrew Gordon Wilson

NeurIPS 2024

- Stochastic Optimal Control Matching
 Carles Domingo-Enrich, Jiequn Han, Brandon Amos, Joan Bruna, and Ricky T. Q. Chen NeurIPS 2024
- Meta Flow Matching: Integrating Vector Fields on the Wasserstein Manifold
 Lazar Atanackovic, Xi Zhang, Brandon Amos, Mathieu Blanchette, Leo J Lee, Yoshua Bengio,
 Alexander Tong, and Kirill Neklyudov
 ICML GRaM Workshop 2024
- Score Function Gradient Estimation to Widen the Applicability of Decision-Focused Learning
 Mattia Silvestri, Senne Berden, Jayanta Mandi, Ali İrfan Mahmutoğulları, Brandon Amos, Tias Guns,
 and Michele Lombardi
 arXiv 2024
- 8. Exact Byte-Level Probabilities from Tokenized Language Models for FIM-Tasks and Model Ensembles Buu Phan, **Brandon Amos**, Itai Gat, Marton Havasi, Matthew Muckley, and Karen Ullrich arXiv 2024
- To the Globe (TTG): Towards Language-Driven Guaranteed Travel Planning
 Da JU, Song Jiang, Andrew Cohen, Aaron Foss, Sasha Mitts, Arman Zharmagambetov,
 Brandon Amos, Xian Li, Justine T Kao, Maryam Fazel-Zarandi, and Yuandong Tian
 EMNLP Demo 2024

2023.....

- 10. Tutorial on amortized optimization [code]
 - **Brandon Amos**

Foundations and Trends in Machine Learning 2023

11. On amortizing convex conjugates for optimal transport [code]

Brandon Amos

ICLR 2023

- End-to-End Learning to Warm-Start for Real-Time Quadratic Optimization [code]
 Rajiv Sambharya, Georgina Hall, Brandon Amos, and Bartolomeo Stellato
 L4DC 2023
- 13. Meta Optimal Transport [code]

 Brandon Amos, Samuel Cohen, Giulia Luise, and levgen Redko
 ICML 2023

- Multisample Flow Matching: Straightening Flows with Minibatch Couplings
 Aram-Alexandre Pooladian, Heli Ben-Hamu, Carles Domingo-Enrich, Brandon Amos, Yaron Lipman, and Ricky T. Q. Chen
 ICML 2023
- Semi-Supervised Offline Reinforcement Learning with Action-Free Trajectories
 Qinqing Zheng, Mikael Henaff, Brandon Amos, and Aditya Grover
 ICML 2023
- 16. TaskMet: Task-Driven Metric Learning for Model Learning
 Dishank Bansal, Ricky T. Q. Chen, Mustafa Mukadam, and Brandon Amos
 NeurIPS 2023
- Landscape Surrogate: Learning Decision Losses for Mathematical Optimization Under Partial Information Arman Zharmagambetov, Brandon Amos, Aaron Ferber, Taoan Huang, Bistra Dilkina, and Yuandong Tian NeurIPS 2023
- 18. Koopman Constrained Policy Optimization: A Koopman operator theoretic method for differentiable optimal control in robotics
 Matthew Retchin, Brandon Amos, Steven Brunton, and Shuran Song
 ICML Differentiable Almost Everything Workshop 2023

2022.....

- Cross-Domain Imitation Learning via Optimal Transport [code]
 Arnaud Fickinger, Samuel Cohen, Stuart Russell, and Brandon Amos ICLR 2022
- 20. Matching Normalizing Flows and Probability Paths on Manifolds Heli Ben-Hamu*, Samuel Cohen*, Joey Bose, Brandon Amos, Aditya Grover, Maximilian Nickel, Ricky T. Q. Chen, and Yaron Lipman ICML 2022
- Semi-Discrete Normalizing Flows through Differentiable Tessellation Ricky T. Q. Chen, Brandon Amos, and Maximilian Nickel NeurIPS 2022
- 22. Theseus: A Library for Differentiable Nonlinear Optimization [code]
 Luis Pineda, Taosha Fan, Maurizio Monge, Shobha Venkataraman, Paloma Sodhi, Ricky Chen,
 Joseph Ortiz, Daniel DeTone, Austin Wang, Stuart Anderson, Jing Dong, Brandon Amos, and
 Mustafa Mukadam
 NeurlPS 2022
- 23. Nocturne: a driving benchmark for multi-agent learning [code]
 Eugene Vinitsky, Nathan Lichtlé, Xiaomeng Yang, **Brandon Amos**, and Jakob Foerster
 NeurlPS Datasets and Benchmarks Track 2022

2021

24. On the model-based stochastic value gradient for continuous reinforcement learning [code] [slides]

Brandon Amos, Samuel Stanton, Denis Yarats, and Andrew Gordon Wilson
L4DC 2021 (Oral)

- 25. Riemannian Convex Potential Maps [code] [slides]
 Samuel Cohen*, Brandon Amos*, and Yaron Lipman
 ICML 2021
- 26. CombOptNet: Fit the Right NP-Hard Problem by Learning Integer Programming Constraints [code] Anselm Paulus, Michal Rolínek, Vít Musil, **Brandon Amos**, and Georg Martius ICML 2021
- Scalable Online Planning via Reinforcement Learning Fine-Tuning
 Arnaud Fickinger, Hengyuan Hu, Brandon Amos, Stuart Russell, and Noam Brown NeurlPS 2021
- 28. Aligning Time Series on Incomparable Spaces [code] [slides]
 Samuel Cohen, Giulia Luise, Alexander Terenin, **Brandon Amos**, and Marc Peter Deisenroth
 AISTATS 2021
- Learning Neural Event Functions for Ordinary Differential Equations [code] Ricky T. Q. Chen, Brandon Amos, and Maximilian Nickel ICLR 2021
- Neural Spatio-Temporal Point Processes [code]
 Ricky T. Q. Chen, Brandon Amos, and Maximilian Nickel ICLR 2021
- 31. Improving Sample Efficiency in Model-Free Reinforcement Learning from Images [code] Denis Yarats, Amy Zhang, Ilya Kostrikov, **Brandon Amos**, Joelle Pineau, and Rob Fergus AAAI 2021
- 32. Neural Fixed-Point Acceleration for Convex Optimization [code] Shobha Venkataraman* and Brandon Amos* ICML AutoML Workshop 2021
- 33. Sliced Multi-Marginal Optimal Transport
 Samuel Cohen, Alexander Terenin, Yannik Pitcan, **Brandon Amos**, Marc Peter Deisenroth, and
 K S Sesh Kumar
 NeurlPS OTML Workshop 2021
- 34. Input Convex Gradient Networks

 Jack Richter-Powell, Jonathan Lorraine, and Brandon Amos

 NeurlPS OTML Workshop 2021
- 35. Imitation Learning from Pixel Observations for Continuous Control
 Samuel Cohen, **Brandon Amos**, Marc Peter Deisenroth, Mikael Henaff, Eugene Vinitsky, and
 Denis Yarats
 NeurlPS DeepRL Workshop 2021
- MBRL-Lib: A Modular Library for Model-based Reinforcement Learning [code]
 Luis Pineda, Brandon Amos, Amy Zhang, Nathan Lambert, and Roberto Calandra arXiv 2021

37. The Differentiable Cross-Entropy Method [code] [slides]
Brandon Amos and Denis Yarats

ICML 2020

- 38. Objective Mismatch in Model-based Reinforcement Learning
 Nathan Lambert, **Brandon Amos**, Omry Yadan, and Roberto Calandra
 L4DC 2020
- QNSTOP: Quasi-Newton Algorithm for Stochastic Optimization [code]
 Brandon Amos, David Easterling, Layne T. Watson, William Thacker, Brent Castle, and Michael Trosset
 ACM TOMS 2020
- 40. Neural Potts Model

Tom Sercu, Robert Verkuil, Joshua Meier, **Brandon Amos**, Zeming Lin, Caroline Chen, Jason Liu, Yann LeCun, and Alexander Rives MLCB 2020

41. Deep Riemannian Manifold Learning
Aaron Lou, Maximilian Nickel, and Brandon Amos
NeurlPS Geo4dl Workshop 2020

2019

42. Differentiable Optimization-Based Modeling for Machine Learning [code]

Brandon Amos

Ph.D. Thesis 2019

- 43. Differentiable Convex Optimization Layers [code]
 Akshay Agrawal*, Brandon Amos*, Shane Barratt*, Stephen Boyd*, Steven Diamond*, and
 J. Zico Kolter*
 NeurlPS 2019
- 44. The Limited Multi-Label Projection Layer [code]
 Brandon Amos, Vladlen Koltun, and J. Zico Kolter
 arXiv 2019
- 45. Generalized Inner Loop Meta-Learning [code] Edward Grefenstette, Brandon Amos, Denis Yarats, Phu Mon Htut, Artem Molchanov, Franziska Meier, Douwe Kiela, Kyunghyun Cho, and Soumith Chintala arXiv 2019

2018

46. Learning Awareness Models

Brandon Amos, Laurent Dinh, Serkan Cabi, Thomas Rothörl, Sergio Gómez Colmenarejo, Alistair Muldal, Tom Erez, Yuval Tassa, Nando de Freitas, and Misha Denil ICLR 2018

- Differentiable MPC for End-to-end Planning and Control [code]
 Brandon Amos, Ivan Dario Jimenez Rodriguez, Jacob Sacks, Byron Boots, and J. Zico Kolter NeurIPS 2018
- 48. Depth-Limited Solving for Imperfect-Information Games
 Noam Brown, Tuomas Sandholm, and **Brandon Amos**NeurlPS 2018

49. Enabling Live Video Analytics with a Scalable and Privacy-Aware Framework Junjue Wang, Brandon Amos, Anupam Das, Padmanabhan Pillai, Norman Sadeh, and Mahadev Satyanarayanan ACM TOMM 2018

2017.....

50. OptNet: Differentiable Optimization as a Layer in Neural Networks [code] [slides]

Brandon Amos and J. Zico Kolter
ICML 2017

- 51. Input Convex Neural Networks [code] [slides]
 Brandon Amos, Lei Xu, and J. Zico Kolter
 ICML 2017
- Task-based End-to-end Model Learning [code]
 Priya L. Donti, Brandon Amos, and J. Zico Kolter
 NeurlPS 2017
- 53. Quasi-Newton Stochastic Optimization Algorithm for Parameter Estimation of a Stochastic Model of the Budding Yeast Cell Cycle

Minghan Chen, **Brandon Amos**, Layne T. Watson, John Tyson, Yang Cao, Cliff Shaffer, Michael Trosset, Cihan Oguz, and Gisella Kakoti IEEE/ACM TCBB 2017

- 54. You can teach elephants to dance: agile VM handoff for edge computing
 Kiryong Ha, Yoshihisa Abe, Thomas Eiszler, Zhuo Chen, Wenlu Hu, **Brandon Amos**,
 Rohit Upadhyaya, Padmanabhan Pillai, and Mahadev Satyanarayanan
 SEC 2017
- 55. An Empirical Study of Latency in an Emerging Class of Edge Computing Applications for Wearable Cognitive Assistance
 Zhuo Chen, Wenlu Hu, Junjue Wang, Siyan Zhao, **Brandon Amos**, Guanhang Wu, Kiryong Ha,

Khalid Elgazzar, Padmanabhan Pillai, Roberta Klatzky, Daniel Siewiorek, and Mahadev Satyanarayanan

SEC 2017

56. A Scalable and Privacy-Aware IoT Service for Live Video Analytics [code] Junjue Wang, Brandon Amos, Anupam Das, Padmanabhan Pillai, Norman Sadeh, and Mahadev Satyanarayanan ACM MMSys 2017 (Best Paper)

2016

- 57. OpenFace: A general-purpose face recognition library with mobile applications [code] Brandon Amos, Bartosz Ludwiczuk, and Mahadev Satyanarayanan CMU 2016
- Collapsed Variational Inference for Sum-Product Networks
 Han Zhao, Tameem Adel, Geoff Gordon, and Brandon Amos ICML 2016
- 59. Quantifying the impact of edge computing on mobile applications Wenlu Hu, Ying Gao, Kiryong Ha, Junjue Wang, Brandon Amos, Zhuo Chen, Padmanabhan Pillai, and Mahadev Satyanarayanan ACM SIGOPS 2016

60.	Privacy mediators: helping IoT cross the chasm Nigel Davies, Nina Taft, Mahadev Satyanarayanan, Sarah Clinch, and Brandon Amos HotMobile 2016	
	Edge Analytics in the Internet of Things Mahadev Satyanarayanan, Pieter Simoens, Yu Xiao, Padmanabhan Pillai, Zhuo Chen, Kiryong Ha, Wenlu Hu, and Brandon Amos IEEE Pervasive Computing 2015	
62.	Bad Parts: Are Our Manufacturing Systems at Risk of Silent Cyberattacks? Hamilton Turner, Jules White, Jaime A. Camelio, Christopher Williams, Brandon Amos, and Robert Parker IEEE Security & Privacy 2015	
63.	Early Implementation Experience with Wearable Cognitive Assistance Applications Zhuo Chen, Lu Jiang, Wenlu Hu, Kiryong Ha, Brandon Amos , Padmanabhan Pillai, Alex Hauptmann, and Mahadev Satyanarayanan WearSys 2015	
64.	The Case for Offload Shaping Wenlu Hu, Brandon Amos , Zhuo Chen, Kiryong Ha, Wolfgang Richter, Padmanabhan Pillai, Benjamin Gilbert, Jan Harkes, and Mahadev Satyanarayanan HotMobile 2015	
65.	Are Cloudlets Necessary? Ying Gao, Wenlu Hu, Kiryong Ha, Brandon Amos , Padmanabhan Pillai, and Mahadev Satyanarayanan CMU 2015	
66.	Adaptive VM handoff across cloudlets Kiryong Ha, Yoshihisa Abe, Zhuo Chen, Wenlu Hu, Brandon Amos , Padmanabhan Pillai, and Mahadev Satyanarayanan CMU 2015	
67.	Global Parameter Estimation for a Eukaryotic Cell Cycle Model in Systems Biology Tricity Andrew, Brandon Amos , David Easterling, Cihan Oguz, William Baumann, John Tyson, a Layne T. Watson SummerSim 2014	nd
68.	Applying machine learning classifiers to dynamic Android malware detection at scale [code] Brandon Amos, Hamilton Turner, and Jules White IWCMC 2013	
Эр	en Source Repositories	
	x+ GitHub stars across all repositories.	
	acebookresearch/advprompter — \star 117 — Fast Adaptive Adversarial Prompting for LLMs acebookresearch/lagrangian-ot — \star 47 — Lagrangian OT	2024 2024
	acebookresearch/amortized-optimization-tutorial — \star 236 — Tutorial on amortized optimization acebookresearch/taskmet — \star 18 — TaskMet: Task-Driven Metric Learning for Model Learning	2023 2023
5. f	acebookresearch/w2ot — ★43 — Wasserstein-2 optimal transport in JAX	2023
	acebookresearch/theseus — ★1.8k — Differentiable non-linear optimization library acebookresearch/meta-ot — ★95 — Meta Optimal Transport	20222022

2022

8. bamos/presentations — *141 — Source for my major presentations	2022
9. facebookresearch/rcpm — ★68 — Riemannian Convex Potential Maps	2021
10. facebookresearch/svg — ★55 — Model-based stochastic value gradient	2021
11. facebookresearch/mbrl-lib — ★955 — Model-based reinforcement learning library	2021
12. facebookresearch/dcem — ★123 — The Differentiable Cross-Entropy Method	2020
13. facebookresearch/higher — \star 1.6k — PyTorch higher-order gradient and optimization library	2019
14. bamos/thesis — ★318 — Ph.D. Thesis LaTeX source code	2019
15. cvxgrp/cvxpylayers — ★1.8k — Differentiable Convex Optimization Layers	2019
16. locuslab/lml — ★58 — The Limited Multi-Label Projection Layer	2019
17. locuslab/mpc.pytorch — ★874 — Differentiable PyTorch Model Predictive Control library	2018
18. locuslab/differentiable-mpc — ★243 — Differentiable MPC experiments	2018
19. locuslab/icnn — ★277 — Input Convex Neural Network experiments	2017
20. locuslab/optnet — ★509 — OptNet experiments	2017
21. locuslab/qpth — ★678 — Differentiable PyTorch QP solver	2017
22. bamos/densenet.pytorch — ★825 — PyTorch DenseNet implementation	2017
23. bamos/block — ★298 — Intelligent block matrix constructions	2017
24. bamos/setGPU — ★106 — Automatically use the least-loaded GPU	2017
25. bamos/dcgan-completion.tensorflow — ★1.3k — Image completion with GANs	2016
26. cmusatyalab/openface — ★15.1k — Face recognition with deep neural networks	2015
27. vtopt/qnstop — ★10 — Fortran quasi-Newton stochastic optimization library	2014
28. bamos/snowglobe — ★27 — Haskell-driven, self-hosted web analytics with minimal configuration	2014
29. bamos/zsh-history-analysis — ★226 — Analyze and plot your zsh history	2014
30. bamos/beamer-snippets — ★109 — Beamer and TikZ snippets	2014
31. bamos/latex-templates — ★366 — LaTeX templates	2013
32. cparse/cparse — \star 336 — $C++$ expression parser using Dijkstra's shunting-yard algorithm	2013
33. bamos/cv — ★400 — Source for this CV: Creates LaTeX/Markdown from YAML/BibTeX	2013
34. bamos/python-scripts — ★197 — Short and fun Python scripts	2013
35. bamos/reading-list — ★185 — YAML reading list and notes system	2013
36. bamos/dotfiles — ★239 — ♥ Linux, xmonad, emacs, vim, zsh, tmux	2012

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Invited Talks

Slides for my major presentations are open-sourced with a CC-BY license at bamos/presentations.

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1. Amortized optimization for optimal transport and LLM attacks — ISMP
                                                                                                   2024
 2. Differentiable optimization for robotics — RSS Optimization for Robotics Workshop
                                                                                                   2024
 3. Amortized optimization-based reasoning for AI — University of Amsterdam
                                                                                                   2024
 4. End-to-end learning geometries for graphs, dynamical systems, and regression — LoG New York
                                                                                                   2024
 5. Amortized optimization for optimal transport — NeurIPS Optimal Transport and ML Workshop
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 6. On optimal control and machine learning — ICML Control and Dynamical Systems Workshop
                                                                                                   2023
 7. Tutorial on amortized optimization — Brown University
                                                                                                   2023
 8. Learning with differentiable and amortized optimization — NYU AI Seminar
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 9. Learning with differentiable and amortized optimization — Vanderbilt ML Seminar
                                                                                                   2023
10. Learning with differentiable and amortized optimization — Microsoft Research
                                                                                                   2022
11. Amortized optimization for computing optimal transport maps — Flatiron Workshop
                                                                                                   2022
12. Learning with differentiable and amortized optimization — Cornell Al Seminar
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13. Learning with differentiable and amortized optimization — Cornell Tech Seminar
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14. Learning with differentiable and amortized optimization — Argonne National Laboratory
                                                                                                   2022
15. Theseus: A library for differentiable nonlinear optimization — NYU
                                                                                                   2022
16. Theseus: A library for differentiable nonlinear optimization — University of Zurich
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17. Differentiable optimization-based modeling for machine learning — Colorado Mines AMS Colloquium
                                                                                                   2022
18. Differentiable optimization — IJCAI Tutorial
                                                                                                   2022
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•	ntrol and RL — ICML Workshop on Decision Awaren modeling for machine learning — CPAIOR Master C n — ICCOPT	
22. Differentiable optimization for con		2022
•	tiable optimization and ODEs — Columbia University	
3	modeling for machine learning — IBM Research	2021
•	ntrol — Max Planck Institute (Tübingen)	2020
	modeling for machine learning — Mila Seminar	2020
27. Deep Declarative Networks — EC		2020
· · · · · · · · · · · · · · · · · · ·	control and vision — CVPR Deep Declarative Networks	Workshop 2020
	modeling for machine learning — Caltech CS 159 (Gue	
	deep energy models — SIAM MDS Minisymposium	2020
	modeling for machine learning — NYU CILVR Semir	
	modeling for machine learning — INFORMS	2019
	modeling for machine learning — Facebook Al Research	arch 2019
	modeling for machine learning — ISMP	2018
•	modeling for machine learning — Google Brain	2018
•	modeling for machine learning — Bosch Center for A	
•	modeling for machine learning — Waymo Research	2018
	modeling for machine learning — Tesla Al	2018
	modeling for machine learning — NVIDIA Robotics	2018
	modeling for machine learning — Salesforce Researc	
	modeling for machine learning — OpenAl	2018
•	modeling for machine learning — NNAISENSE	2018
43. Differentiable optimization and co		2018
Interns and Students Aaron Havens (visiting FAIR from UIU	JC)	2024 – present
Aram-Alexandre Pooladian (visiting Fr	•	2022 – 2024
Carles Domingo-Enrich (visiting FAIR	•	2022 - 2024
Anselm Paulus (visiting FAIR from Ma	,	2023 - 2024
Matthew Retchin (Columbia MS thesi	- ,	2023
Sanae Lotfi (visiting FAIR from NYU)	,	2022 - 2023
Dishank Bansal (Al resident at FAIR)	'	2022 - 2023
Arnaud Fickinger (visiting FAIR from	Rerkeley)	2021 - 2022
_	I and Stanford, now scientist at OpenAI)	2020 - 2022
Eugene Vinitsky (visiting FAIR from E		2021 - 2022
Samuel Cohen (visiting FAIR from UC	,	2021 - 2022
Ricky Chen (visiting FAIR from Toron	,	2020
Paul Liang (visiting FAIR from CMU,	,	2020
Phillip Wang (at CMU, now CEO at C	•	2018
Time trang (at eme, new elle at	outlist)	2010
Professional Activities		
AAAI Senior Program Committee		2025
NeurIPS Area Chair		2024
NeurIPS Datasets and Benchmarks Ai	rea Chair	2024
AAAI Senior Program Committee		2024
NeurIPS Area Chair		2023

NeurIPS Datasets and Benchmarks Area Chair	2023
AAAI Senior Program Committee	2023
NeurIPS Learning Meets Combinatorial Optimization Workshop Organizer	2020
CVPR Deep Declarative Networks Workshop Organizer	2020
ECCV Deep Declarative Networks Tutorial Organizer	2020
CMU CSD MS Admissions	2014 - 2015

Reviewing.....

AAAI Conference on Artificial Intelligence

American Controls Conference (ACC)

IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

IEEE Conference on Decision and Control (CDC)

IEEE Control Systems Letters (L-CSS)

IEEE International Conference on Computer Vision (ICCV)

IEEE International Conference on Intelligent Robots and Systems (IROS)

IEEE International Conference on Robotics and Automation (ICRA)

International Conference on the Constraint Programming, AI, and Operations Research (CPAIOR)

International Conference on Learning Representations (ICLR)

International Conference on Machine Learning (ICML)

International Conference on Machine Learning (ICML) SODS Workshop

Journal of Machine Learning Research (JMLR)

Learning for Dynamics and Control (L4DC)

Mathematical Programming Computation (MPC)

Neural Information Processing Systems (NeurIPS)

Neural Information Processing Systems (NeurIPS) Datasets and Benchmarks Track

Neural Information Processing Systems (NeurIPS) OPT Workshop

Neural Information Processing Systems (NeurIPS) DiffCVGP Workshop

Neural Information Processing Systems (NeurIPS) Deep RL Workshop

Optimization Letters

Transactions on Machine Learning Research (TMLR)

Teaching

Applied Machine Learning (Cornell Tech CS5785), Co-instructor	F2024
Graduate AI (CMU 15-780), TA	S2017
Distributed Systems (CMU 15-440/640), TA	S2016
Software Design and Data Structures (VT CS2114), TA	S2013

Skills

Programming C, C++, Fortran, Haskell, Java, Lua, Make, Mathematica, Python, R, Scala

Frameworks JAX, NumPy, Pandas, PyTorch, SciPy, TensorFlow, Torch7 Toolbox Linux, emacs, vim, evil, org, mu4e, xmonad, git, tmux, zsh