Brandon Amos

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bamos • Last updated on July 3, 2024

Current Position

Research Scientist, Meta, Fundamental Al Research (FAIR), New York City 2019 - Present

Education

Ph.D. in Computer Science, Carnegie Mellon University (0.00/0.00) 2014 - 2019

Thesis: Differentiable Optimization-Based Modeling for Machine Learning

Advisor: J. Zico Kolter

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

2011 - 2014

Previous Positions

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 , <i>Qualcomm</i> , 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: 8.4k+ citations and an h-index of 37]

Selected publications I am a primary author on are highlighted.

2024.....

- 1. AdvPrompter: Fast Adaptive Adversarial Prompting for LLMs [code] Anselm Paulus*, Arman Zharmagambetov*, Chuan Guo, Brandon Amos[†], and Yuandong Tian[†] arXiv 2024
- 2. 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
- 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

2023

6. Tutorial on amortized optimization [code]

Brandon Amos

Foundations and Trends in Machine Learning 2023

7. 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
- 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
- 12. 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 NeurlPS 2023
- 14. 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

Stochastic Optimal Control Matching
 Carles Domingo-Enrich, Jiequn Han, Brandon Amos, Joan Bruna, and Ricky T. Q. Chen arXiv 2023

2022.....

- 16. Cross-Domain Imitation Learning via Optimal Transport [code]
 Arnaud Fickinger, Samuel Cohen, Stuart Russell, and Brandon Amos
 ICLR 2022
- 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 NeurlPS 2022
- 19. 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
- 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.....

- 21. 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)
- 22. Riemannian Convex Potential Maps [code] [slides]
 Samuel Cohen*, Brandon Amos*, and Yaron Lipman
 ICML 2021
- 23. 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
- 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

28. 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

29. Neural Fixed-Point Acceleration for Convex Optimization [code] Shobha Venkataraman* and Brandon Amos* ICML AutoML Workshop 2021

30. Sliced Multi-Marginal Optimal Transport

Samuel Cohen, Alexander Terenin, Yannik Pitcan, **Brandon Amos**, Marc Peter Deisenroth, and K S Sesh Kumar

NeurIPS OTML Workshop 2021

31. Input Convex Gradient Networks
Jack Richter-Powell, Jonathan Lorraine, and Brandon Amos
NeurlPS OTML Workshop 2021

32. 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

33. MBRL-Lib: A Modular Library for Model-based Reinforcement Learning [code] Luis Pineda, **Brandon Amos**, Amy Zhang, Nathan Lambert, and Roberto Calandra arXiv 2021

2020

34. The Differentiable Cross-Entropy Method [code] [slides]
Brandon Amos and Denis Yarats
ICML 2020

Objective Mismatch in Model-based Reinforcement Learning
 Nathan Lambert, Brandon Amos, Omry Yadan, and Roberto Calandra L4DC 2020

36. 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

37. Neural Potts Model

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

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

2019

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

Brandon Amos

Ph.D. Thesis 2019

40. Differentiable Convex Optimization Layers [code]
Akshay Agrawal*, Brandon Amos*, Shane Barratt*, Stephen Boyd*, Steven Diamond*, and
J. Zico Kolter*
NeurIPS 2019

41. The Limited Multi-Label Projection Layer [code]

Brandon Amos, Vladlen Koltun, and J. Zico Kolter

arXiv 2019

42. 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.

43. 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

44. Differentiable MPC for End-to-end Planning and Control [code] Brandon Amos, Ivan Dario Jimenez Rodriguez, Jacob Sacks, Byron Boots, and J. Zico Kolter NeurlPS 2018

45. Depth-Limited Solving for Imperfect-Information Games
Noam Brown, Tuomas Sandholm, and **Brandon Amos**NeurlPS 2018

46. 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

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

Brandon Amos and J. Zico Kolter
ICML 2017

48. Input Convex Neural Networks [code] [slides]
Brandon Amos, Lei Xu, and J. Zico Kolter
ICML 2017

49. Task-based End-to-end Model Learning [code]
Priya L. Donti, **Brandon Amos**, and J. Zico Kolter
NeurlPS 2017

50. 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

51. 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

52. 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

53. 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

54. OpenFace: A general-purpose face recognition library with mobile applications [code] Brandon Amos, Bartosz Ludwiczuk, and Mahadev Satyanarayanan CMU 2016

55. Collapsed Variational Inference for Sum-Product Networks Han Zhao, Tameem Adel, Geoff Gordon, and Brandon Amos ICML 2016

56. 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

57. Privacy mediators: helping IoT cross the chasm
Nigel Davies, Nina Taft, Mahadev Satyanarayanan, Sarah Clinch, and Brandon Amos
HotMobile 2016

2015 and earlier.....

58. 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

59. 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

- 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
- 61. 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

62. Are Cloudlets Necessary?

Ying Gao, Wenlu Hu, Kiryong Ha, **Brandon Amos**, Padmanabhan Pillai, and Mahadev Satyanarayanan CMU 2015

63. Adaptive VM handoff across cloudlets

Kiryong Ha, Yoshihisa Abe, Zhuo Chen, Wenlu Hu, **Brandon Amos**, Padmanabhan Pillai, and Mahadev Satyanarayanan CMU 2015

- 64. Global Parameter Estimation for a Eukaryotic Cell Cycle Model in Systems Biology
 Tricity Andrew, **Brandon Amos**, David Easterling, Cihan Oguz, William Baumann, John Tyson, and
 Layne T. Watson
 SummerSim 2014
- 65. Applying machine learning classifiers to dynamic Android malware detection at scale [code] Brandon Amos, Hamilton Turner, and Jules White IWCMC 2013

Open Source Repositories

29.1k+ GitHub stars across all repositories.

1. facebookresearch/advprompter — ★85 — Fast Adaptive Adversarial Prompting for LLMs	2024
2. facebookresearch/lagrangian-ot — ★6 — Lagrangian OT	2024
3. facebookresearch/amortized-optimization-tutorial — \star 232 — Tutorial on amortized optimization	2023
4. facebookresearch/taskmet — ★16 — TaskMet: Task-Driven Metric Learning for Model Learning	2023
5. facebookresearch/w2ot — ★41 — Wasserstein-2 optimal transport in JAX	2023
6. facebookresearch/theseus — ★1.7k — Differentiable non-linear optimization library	2022
7. facebookresearch/meta-ot — ★94 — Meta Optimal Transport	2022
8. bamos/presentations — ★124 — Source for my major presentations	2022
9. facebookresearch/rcpm — ★67 — Riemannian Convex Potential Maps	2021
10. facebookresearch/svg — ★54 — Model-based stochastic value gradient	2021
11. facebookresearch/mbrl-lib — ★931 — Model-based reinforcement learning library	2021
12. facebookresearch/dcem — ★122 — The Differentiable Cross-Entropy Method	2020
13. facebookresearch/higher — \star 1.6k — PyTorch higher-order gradient and optimization library	2019
14. bamos/thesis — ★312 — Ph.D. Thesis LaTeX source code	2019
15. cvxgrp/cvxpylayers — ★1.7k — Differentiable Convex Optimization Layers	2019
16. locuslab/lml — ★58 — The Limited Multi-Label Projection Layer	2019
17. locuslab/mpc.pytorch — ★818 — Differentiable PyTorch Model Predictive Control library	2018
18. locuslab/differentiable-mpc — ★215 — Differentiable MPC experiments	2018
19. locuslab/icnn — ★270 — Input Convex Neural Network experiments	2017
20. locuslab/optnet — ★490 — OptNet experiments	2017
21. locuslab/qpth — ★655 — Differentiable PyTorch QP solver	2017

22. bamos/densenet.pytorch — ★817 — PyTorch DenseNet implementation	2017
23. bamos/block — ★294 — 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 — ★15k — Face recognition with deep neural networks	2015
27. vtopt/qnstop — ★10 — Fortran quasi-Newton stochastic optimization library	2014
28. bamos/snowglobe — \star 27 — Haskell-driven, self-hosted web analytics with minimal configura	tion 2014
29. bamos/zsh-history-analysis — ★220 — Analyze and plot your zsh history	2014
30. bamos/beamer-snippets — ★109 — Beamer and TikZ snippets	2014
31. bamos/latex-templates — ★364 — LaTeX templates	2013
32. cparse/cparse — \star 330 — C++ expression parser using Dijkstra's shunting-yard algorithm	2013
33. bamos/cv — ★397 — 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 — ★188 — YAML reading list and notes system	2013
36. bamos/dotfiles — ★238 — ♥ Linux, xmonad, emacs, vim, zsh, tmux	2012

Invited Talks

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

1.	Differentiable optimization for control and robotics, RSS Optimization for Robotics Workshop	2024
2.	End-to-end learning geometries for graphs, dynamical systems, and regression, LoG New York	2024
3.	Amortized optimization for optimal transport, NeurIPS Optimal Transport and ML Workshop	2023
4.	On optimal control and machine learning, ICML Learning, Control, and Dynamical Systems Workshop	2023
5.	Tutorial on amortized optimization, Brown University	2023
6.	Learning with differentiable and amortized optimization, NYU Al Seminar	2023
	Learning with differentiable and amortized optimization, Vanderbilt ML Seminar	2023
8.	Learning with differentiable and amortized optimization, Microsoft Research	2022
9.	Amortized optimization for computing optimal transport maps, Flatiron Workshop	2022
10.	Learning with differentiable and amortized optimization, Cornell Al Seminar	2022
11.	Learning with differentiable and amortized optimization, Cornell Tech Seminar	2022
12.	Learning with differentiable and amortized optimization, Argonne National Laboratory	2022
13.	Theseus: A library for differentiable nonlinear optimization, NYU	2022
14.	Theseus: A library for differentiable nonlinear optimization, University of Zurich	2022
15.	Differentiable optimization-based modeling for machine learning, Colorado Mines AMS Colloquium	2022
16.	Differentiable optimization, IJCAI Tutorial	2022
17.	Differentiable optimization for control and RL, ICML Workshop on Decision Awareness in RL	2022
18.	Differentiable optimization-based modeling for machine learning, CPAIOR Master Class	2022
	Tutorial on amortized optimization, ICCOPT	2022
	Differentiable optimization for control and RL, Gridmatic	2022
	Learning for control with differentiable optimization and ODEs, Columbia University	2021
	Differentiable optimization-based modeling for machine learning, IBM Research	2021
23.	Differentiable optimization for control, Max Planck Institute (Tübingen)	2020
	Differentiable optimization-based modeling for machine learning, Mila Seminar	2020
	Deep Declarative Networks, ECCV Tutorial	2020
	On differentiable optimization for control and vision, CVPR Deep Declarative Networks Workshop	2020
	Differentiable optimization-based modeling for machine learning, Caltech CS 159 (Guest Lecture)	2020
	Unrolled optimization for learning deep energy models, SIAM MDS Minisymposium	2020
	Differentiable optimization-based modeling for machine learning, NYU CILVR Seminar	2019
	Differentiable optimization-based modeling for machine learning, INFORMS	2019
	Differentiable optimization-based modeling for machine learning, Facebook Al Research	2019
	Differentiable optimization-based modeling for machine learning ISMP	2018

33. Differentiable optimization-based modeling for machine learning, Google Brain	018
34. Differentiable optimization-based modeling for machine learning, Bosch Center for Al 20	018
35. Differentiable optimization-based modeling for machine learning, Waymo Research	018
36. Differentiable optimization-based modeling for machine learning, Tesla Al 20	018
37. Differentiable optimization-based modeling for machine learning, NVIDIA Robotics	018
38. Differentiable optimization-based modeling for machine learning, Salesforce Research	018
39. Differentiable optimization-based modeling for machine learning, OpenAl 20	018
40. Differentiable optimization-based modeling for machine learning, NNAISENSE	018
41. Differentiable optimization and control, UC Berkeley	018

Interns and Students

Aaron Havens (visiting FAIR from UIUC)	2024 – present
Aram-Alexandre Pooladian (visiting FAIR from NYU)	2022 – present
Carles Domingo-Enrich (visiting FAIR from NYU)	2022 – present
Anselm Paulus (visiting FAIR from Max Planck Institute, Tübingen)	2023 - 2024
Matthew Retchin (Columbia MS thesis committee, now at Harvard)	2023
Sanae Lotfi (visiting FAIR from NYU)	2022 - 2023
Dishank Bansal (Al resident at FAIR)	2022 - 2023
Arnaud Fickinger (visiting FAIR from Berkeley)	2021 - 2022
Aaron Lou (visiting FAIR from Cornell and Stanford)	2020 - 2022
Eugene Vinitsky (visiting FAIR from Berkeley, now professor at NYU)	2021 - 2022
Samuel Cohen (visiting FAIR from UCL, now CEO at FairGen)	2021 - 2022
Ricky Chen (visiting FAIR from Toronto, now scientist at FAIR)	2020
Paul Liang (visiting FAIR from CMU)	2020
Phillip Wang (at CMU, now CEO at Gather)	2018

Professional Activities

NeurIPS Area Chair	2024
NeurIPS Datasets and Benchmarks Area 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

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