Songlin Jiang

songlin.jiang@aalto.fi • hollowman6.github.io • songlin-jiang
HollowM186 • HollowMan6 • Last updated on November 3, 2023

Current Position

Research Scientist, *Meta AI, Fundamental AI 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, *Qualcomm*, San Diego (Python and C++ development) 2013
Software Intern, *Phoenix Integration*, 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: 7.1k+ citations and an h-index of 34]

Selected publications are highlighted.

2023

1. *Tutorial on amortized optimization* [code]
Brandon Amos
Foundations and Trends in Machine Learning 2023

2. *On amortizing convex conjugates for optimal transport* [code]
Brandon Amos
ICLR 2023

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

4. *Meta Optimal Transport* [code]
   Brandon Amos, Samuel Cohen, Giulia Luise, and Ievgen Redko
   ICML 2023

5. *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

6. *Semi-Supervised Offline Reinforcement Learning with Action-Free Trajectories*
   Zheng, Qinqing, Henaff, Mikael, **Amos, Brandon**, and Grover, Aditya
   ICML 2023

7. *TaskMet: Task-Driven Metric Learning for Model Learning*
   Dishank Bansal, Ricky T. Q. Chen, Mustafa Mukadam, and **Brandon Amos**
   NeurIPS 2023

8. *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

9. *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

10. *Neural Optimal Transport with Lagrangian Costs*
    Aram-Alexandre Pooladian, Carles Domingo-Enrich, Ricky T. Q. Chen, and **Brandon Amos**
    ICML New Frontiers in Learning, Control, and Dynamical Systems Workshop 2023

2022

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

12. *Matching Normalizing Flows and Probability Paths on Manifolds*
    Ben-Hamu*, Heli, Cohen*, Samuel, Bose, Joey, **Amos, Brandon**, Grover, Aditya, Nickel, Maximilian, Chen, Ricky T. Q., and Lipman, Yaron
    ICML 2022

13. *Semi-Discrete Normalizing Flows through Differentiable Tessellation*
    Ricky T. Q. Chen, **Brandon Amos**, and Maximilian Nickel
    NeurIPS 2022

14. *Theseus: A Library for Differentiable Nonlinear Optimization* [code]
    Pineda, Luis, Fan, Taosha, Monge, Maurizio, Venkataraman, Shobha, Sodhi, Paloma, Chen, Ricky, Ortiz, Joseph, DeTone, Daniel, Wang, Austin, Anderson, Stuart, Dong, Jing, **Amos, Brandon**, and Mukadam, Mustafa
    NeurIPS 2022

15. *Nocturne: a driving benchmark for multi-agent learning* [code]
Vinitsky, Eugene, Lichtlé, Nathan, Yang, Xiaomeng, **Amos, Brandon**, and Foerster, Jakob
NeurIPS Datasets and Benchmarks Track 2022

2021

16. *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)

17. *Riemannian Convex Potential Maps* [code] [slides]
Cohen*, Samuel, **Amos*, Brandon**, and Lipman, Yaron
ICML 2021

18. *Scalable Online Planning via Reinforcement Learning Fine-Tuning*
Arnaud Fickinger, Hengyuan Hu, **Brandon Amos**, Stuart Russell, and Noam Brown
NeurIPS 2021

19. *Aligning Time Series on Incomparable Spaces* [code] [slides]
Samuel Cohen, Giulia Luise, Alexander Terenin, **Brandon Amos**, and Marc Peter Deisenroth
AISTATS 2021

20. *Learning Neural Event Functions for Ordinary Differential Equations* [code]
Ricky T. Q. Chen, **Brandon Amos**, and Maximilian Nickel
ICLR 2021

21. *Neural Spatio-Temporal Point Processes* [code]
Ricky T. Q. Chen, **Brandon Amos**, and Maximilian Nickel
ICLR 2021

22. *Improving Sample Efficiency in Model-Free Reinforcement Learning from Images* [code]
Yarats, Denis, Zhang, Amy, Kostrikov, Ilya, **Amos, Brandon**, Pineau, Joelle, and Fergus, Rob
AAAI 2021

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

24. *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

25. *Input Convex Gradient Networks*
Jack Richter-Powell, Jonathan Lorraine, and **Brandon Amos**
NeurIPS OTML Workshop 2021

26. *Imitation Learning from Pixel Observations for Continuous Control*
Cohen, Samuel, **Amos, Brandon**, Deisenroth, Marc Peter, Henaff, Mikael, Vinitsky, Eugene, and Yarats, Denis
NeurIPS DeepRL Workshop 2021

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

2020

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

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

30. *QNSTOP: Quasi-Newton Algorithm for Stochastic Optimization* [code]
Brandon Amos, David Easterling, Layne T. Watson and William Thacker, Brent Castle, and Michael Trosset
ACM TOMS 2020

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

32. *Deep Riemannian Manifold Learning*
Lou, Aaron, Nickel, Maximilian, and **Amos, Brandon**
NeurIPS Geo4dl Workshop 2020

2019

33. *Differentiable Optimization-Based Modeling for Machine Learning* [code]
Brandon Amos
Ph.D. Thesis 2019

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

35. *The Limited Multi-Label Projection Layer* [code]
Brandon Amos, Vladlen Koltun, and J. Zico Kolter
arXiv 2019

36. *Generalized Inner Loop Meta-Learning* [code]
Grefenstette, Edward, **Amos, Brandon**, Yarats, Denis, Htut, Phu Mon, Molchanov, Artem, Meier, Franziska, Kiela, Douwe, Cho, Kyunghyun, and Chintala, Soumith
arXiv 2019

2018

37. *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

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

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

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

2017

41. *OptNet: Differentiable Optimization as a Layer in Neural Networks* [code] [slides]
Brandon Amos and J. Zico Kolter
ICML 2017

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

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

44. *Quasi-Newton Stochastic Optimization Algorithm for Parameter Estimation of a Stochastic Model of the Budding Yeast Cell Cycle*
Chen, Minghan, **Amos, Brandon**, Watson, Layne T., Tyson, John, Cao, Yang, Shaffer, Cliff, Trosset, Michael, Oguz, Cihan, and Kakoti, Gisella
IEEE/ACM TCBB 2017

45. *You can teach elephants to dance: agile VM handoff for edge computing*
Ha, Kiryong, Abe, Yoshihisa, Eiszler, Thomas, Chen, Zhuo, Hu, Wenlu, **Amos, Brandon**, Upadhyaya, Rohit, Pillai, Padmanabhan, and Satyanarayanan, Mahadev
SEC 2017

46. *An Empirical Study of Latency in an Emerging Class of Edge Computing Applications for Wearable Cognitive Assistance*
Chen, Zhuo, Hu, Wenlu, Wang, Junjue, Zhao, Siyan, **Amos, Brandon**, Wu, Guanhang, Ha, Kiryong, Elgazzar, Khalid, Pillai, Padmanabhan, Klatzky, Roberta, Siewiorek, Daniel, and Satyanarayanan, Mahadev
SEC 2017

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

2016

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

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

50. *Quantifying the impact of edge computing on mobile applications*
Hu, Wenlu, Gao, Ying, Ha, Kiryong, Wang, Junjue, **Amos, Brandon**, Chen, Zhuo, Pillai, Padmanabhan, and Satyanarayanan, Mahadev
ACM SIGOPS 2016

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

2015 and earlier

52. *Edge Analytics in the Internet of Things*
Mahadev Satyanarayanan, Pieter Simoens, Yu Xiao and Padmanabhan Pillai, Zhuo Chen, Kiryong Ha and Wenlu Hu, and **Brandon Amos**
IEEE Pervasive Computing 2015

53. *Bad Parts: Are Our Manufacturing Systems at Risk of Silent Cyberattacks?*
Turner, Hamilton, White, Jules, Camelio, Jaime A., Williams, Christopher, **Amos, Brandon**, and Parker, Robert
IEEE Security & Privacy 2015

54. *Early Implementation Experience with Wearable Cognitive Assistance Applications*
Chen, Zhuo, Jiang, Lu, Hu, Wenlu, Ha, Kiryong, **Amos, Brandon**, Pillai, Padmanabhan, Hauptmann, Alex, and Satyanarayanan, Mahadev
WearSys 2015

55. *The Case for Offload Shaping*
Wenlu Hu, **Brandon Amos**, Zhuo Chen, Kiryong Ha and Wolfgang Richter, Padmanabhan Pillai, Benjamin Gilbert and Jan Harkes, and Mahadev Satyanarayanan
HotMobile 2015

56. *Are Cloudlets Necessary?*
Gao, Ying, Hu, Wenlu, **Ha, Kiryong and Amos, Brandon**, and Pillai, Padmanabhan and Satyanarayanan, Mahadev
CMU 2015

57. *Adaptive VM handoff across cloudlets*
Ha, Kiryong, Abe, Yoshihisa, Chen, Zhuo and Hu, Wenlu, **Amos, Brandon**, and Pillai, Padmanabhan and Satyanarayanan, Mahadev
CMU 2015

58. *Global Parameter Estimation for a Eukaryotic Cell Cycle Model in Systems Biology*
Tricity Andrew, **Brandon Amos**, David Easterling, Cihan Oguz and William Baumann, John Tyson, and Layne T. Watson
SummerSim 2014

59. *Applying machine learning classifiers to dynamic Android malware detection at scale* [code]
Amos, Brandon, Turner, Hamilton, and White, Jules
IWCMC 2013

Open Source Repositories

28.2k+ GitHub stars across all repositories.

1. facebookresearch/amortized-optimization-tutorial — ★215 — *Tutorial on amortized optimization* 2023
2. facebookresearch/w2ot — ★39 — *Wasserstein-2 optimal transport in JAX* 2023

3. facebookresearch/theseus — ★1.5k — *Differentiable non-linear optimization library* 2022
4. facebookresearch/meta-ot — ★86 — *Meta Optimal Transport* 2022
5. bamos/presentations — ★114 — *Source for my major presentations* 2022
6. facebookresearch/rcpm — ★66 — *Riemannian Convex Potential Maps* 2021
7. facebookresearch/svg — ★54 — *Model-based stochastic value gradient* 2021
8. facebookresearch/mbrl-lib — ★858 — *Model-based reinforcement learning library* 2021
9. facebookresearch/dcem — ★119 — *The Differentiable Cross-Entropy Method* 2020
10. facebookresearch/higher — ★1.6k — *PyTorch higher-order gradient and optimization library* 2019
11. bamos/thesis — ★304 — *Ph.D. Thesis LaTeX source code* 2019
12. cvxgrp/cvxpylayers — ★1.6k — *Differentiable Convex Optimization Layers* 2019
13. locuslab/lml — ★57 — *The Limited Multi-Label Projection Layer* 2019
14. locuslab/mpc.pytorch — ★743 — *Differentiable PyTorch Model Predictive Control library* 2018
15. locuslab/differentiable-mpc — ★169 — *Differentiable MPC experiments* 2018
16. locuslab/icnn — ★261 — *Input Convex Neural Network experiments* 2017
17. locuslab/optnet — ★465 — *OptNet experiments* 2017
18. locuslab/qpth — ★614 — *Differentiable PyTorch QP solver* 2017
19. bamos/densenet.pytorch — ★802 — *PyTorch DenseNet implementation* 2017
20. bamos/block — ★287 — *Intelligent block matrix constructions* 2017
21. bamos/setGPU — ★105 — *Automatically use the least-loaded GPU* 2017
22. bamos/dcgan-completion.tensorflow — ★1.3k — *Image completion with GANs* 2016
23. cmusatyalab/openface — ★14.8k — *Face recognition with deep neural networks* 2015
24. vtopt/qnstop — ★10 — *Fortran Quasi-newton stochastic optimization library* 2014
25. bamos/snowglobe — ★27 — *Haskell-driven, self-hosted web analytics with minimal configuration* 2014
26. bamos/zsh-history-analysis — ★205 — *Analyze and plot your zsh history* 2014
27. bamos/beamer-snippets — ★110 — *Beamer and TikZ snippets* 2014
28. bamos/latex-templates — ★365 — *LaTeX templates* 2013
29. cparse/cparse — ★322 — *C++ expression parser using Dijkstra's shunting-yard algorithm* 2013
30. bamos/cv — ★391 — *Source for this CV: Creates LaTeX/Markdown from YAML/BibTeX* 2013
31. bamos/python-scripts — ★197 — *Short and fun Python scripts* 2013
32. bamos/reading-list — ★187 — *YAML reading list and notes system* 2013
33. bamos/dotfiles — ★235 — ♥ *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. *On optimal control and machine learning*, ICML Learning, Control, and Dynamical Systems Workshop 2023
2. *Tutorial on amortized optimization*, Brown University 2023
3. *Learning with differentiable and amortized optimization*, NYU AI Seminar 2023
4. *Learning with differentiable and amortized optimization*, Vanderbilt ML Seminar 2023
5. *Learning with differentiable and amortized optimization*, Microsoft Research 2022
6. *Amortized optimization for computing optimal transport maps*, Flatiron Workshop 2022
7. *Learning with differentiable and amortized optimization*, Cornell AI Seminar 2022
8. *Learning with differentiable and amortized optimization*, Cornell Tech Seminar 2022
9. *Learning with differentiable and amortized optimization*, Argonne National Laboratory 2022
10. *Theseus: A library for differentiable nonlinear optimization*, NYU 2022
11. *Theseus: A library for differentiable nonlinear optimization*, University of Zurich 2022
12. *Differentiable optimization-based modeling for machine learning*, Colorado Mines AMS Colloquium 2022
13. *Differentiable optimization*, IJCAI Tutorial 2022
14. *Differentiable optimization for control and RL*, ICML Workshop on Decision Awareness in RL 2022
15. *Differentiable optimization-based modeling for machine learning*, CPAIOR Master Class 2022
16. *Tutorial on amortized optimization*, ICCOPT 2022

17. *Differentiable optimization for control and RL*, Gridmatic 2022
18. *Learning for control with differentiable optimization and ODEs*, Columbia University 2021
19. *Differentiable optimization-based modeling for machine learning*, IBM Research 2021
20. *Differentiable optimization for control*, Max Planck Institute (Tübingen) 2020
21. *Differentiable optimization-based modeling for machine learning*, Mila Seminar 2020
22. *Deep Declarative Networks*, ECCV Tutorial 2020
23. *On differentiable optimization for control and vision*, CVPR Deep Declarative Networks Workshop 2020
24. *Differentiable optimization-based modeling for machine learning*, Caltech CS 159 (Guest Lecture) 2020
25. *Unrolled optimization for learning deep energy models*, SIAM MDS Minisymposium 2020
26. *Differentiable optimization-based modeling for machine learning*, NYU CILVR Seminar 2019
27. *Differentiable optimization-based modeling for machine learning*, INFORMS 2019
28. *Differentiable optimization-based modeling for machine learning*, Facebook AI Research 2019
29. *Differentiable optimization-based modeling for machine learning*, ISMP 2018
30. *Differentiable optimization-based modeling for machine learning*, Google Brain 2018
31. *Differentiable optimization-based modeling for machine learning*, Bosch Center for AI 2018
32. *Differentiable optimization-based modeling for machine learning*, Waymo Research 2018
33. *Differentiable optimization-based modeling for machine learning*, Tesla AI 2018
34. *Differentiable optimization-based modeling for machine learning*, NVIDIA Robotics 2018
35. *Differentiable optimization-based modeling for machine learning*, Salesforce Research 2018
36. *Differentiable optimization-based modeling for machine learning*, OpenAI 2018
37. *Differentiable optimization-based modeling for machine learning*, NNAISENSE 2018
38. *Differentiable optimization and control*, UC Berkeley 2018

Interns and Students

Anselm Paulus (visiting FAIR from Max Planck Institute, Tübingen) 2023 – present
Aram-Alexandre Pooladian (visiting FAIR from NYU) 2022 – present
Carles Domingo-Enrich (visiting FAIR from NYU) 2022 – present
Sanae Lotfi (visiting FAIR from NYU) 2022 – 2023
Dishank Bansal (AI 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 incoming 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

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