Armin Askari

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Education

UC Berkeley
Ph.D., EECS, 2017 —.
> Advised by: Prof. Laurent El Ghaoui
> Research Interests: Robust Optimization, Machine Learning, Control Theory

UC Berkeley
B.A., Applied Mathematics, B.Sc., Mechanical Engineering, 2017.

Graduate Coursework

Optimization (EE 227A/B/C), Real and Functional Analysis (Math 202A/B)
> Theoretical Statistics (Stat 210A/B), Statistical Models: Theory and Application (Stat 215A/B)
> High-dim Data Analysis with Low-dim Models (EE290T), Robust Control (ME 234)
> Model Predictive Control (ME 231A), Linear and Nonlinear Systems (EE 221A/222)

Publications

Naive Feature Selection: Sparsity in Naive Bayes. AISTATS 2020.
> **Armin Askari**, Alex d'Aspremont, Laurent El Ghaoui

Step-Size Adaptivity in Projection-Free Optimization. AISTATS 2020.
> Fabian Pedregosa, **Armin Askari**, Geoffrey Negiar, Martin Jaggi

Fenchel Lifted Networks: A Lagrange Relaxation of Neural Network Training. AISTATS 2020.
> Fangda Gu*, **Armin Askari***, Laurent El Ghaoui

Lifted Neural Networks for Weight Initialization. NIPS Opt Workshop 2017.
> Geoffrey Negiar*, **Armin Askari***, Fabian Pedregosa, Laurent El Ghaoui

Effect of Adaptive and Cooperative Adaptive Cruise Control on Throughput of Signalized Arterials. IV 2017.
> **Armin Askari**, Daniel A. Farias, Alex A. Kurzhanskiy, Pravin Varaiya

Preprints

Implicit Neural Networks. arXiv 2019.
> Laurent El Ghaoui, Fangda Gu, Bertrand Travacca, **Armin Askari**

Kernel-based Outlier Detection using the Inverse Christoffel Function. arXiv 2018.
> **Armin Askari**, Forest Yang, Laurent El Ghaoui

Frank-Wolfe Algorithm for Exemplar Selection. arXiv 2018.
> Gary Cheng, **Armin Askari**, Laurent El Ghaoui, Kannan Ramchandran

Lifted Neural Networks. arXiv 2018.
> **Armin Askari**, Geoffrey Negiar, Rajiv Sambharya, Laurent El Ghaoui

Measuring Impact of Adaptive and Cooperative Adaptive Cruise Control on Throughput of Signalized Intersections. arXiv 2017.
> **Armin Askari**, Daniel A. Farias, Alex A. Kurzhanskiy, Pravin Varaiya

Work

Research Internship, *Genentech*, South San Francisco, Summer 2019
Supervisor: Dr. Thomas Bengtsson and Dr. Yury Petrov
Created synthetic CT scans with malignant tumours for classification using Cycle-GANs

Teaching

Graduate Student Instructor
EE 227A/B/C—Optimization Models/Robust Optimization/ Optimization Algorithms.
Instructors: Laurent El Ghaoui & Martin Wainwright UC Berkeley
Fall 2019, Spring 2017, 2019, 2020

Awards and Fellowships

EECS Departmental Fellowship. UC Berkeley, 2017-2018.
Departmental Citation Award. UC Berkeley, 2017.
Kortschak Scholars Finalist. Caltech, 2017.
Donald and Jeanne Short Scholarship. UC Berkeley, 2016.
Leman Rubin Merit Scholarship. UC Berkeley, 2015.
NSERC - Undergraduate Student Research Award. University of Toronto, 2015.
Tau Beta Pi Engineering Honor Society. UC Berkeley, 2014.
North American Collegiate Bridge Team Championships. UC Berkeley, 2014, 2018, 2019
World Youth Bridge Championships. Canadian Bridge Federation, 2012/2016.