Leslie Rice

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Education

Carnegie Mellon University

Pittsburgh, PA, August 2018 - Present

Ph.D. in Computer Science

The University of Texas at Austin

Austin, TX, August 2013 - May 2017

B.S. in Computer Science

B.S. in Mathematical Sciences, Specialization in Statistics, Probability & Data Analysis

Research Experience

Carnegie Mellon University

Pittsburgh, PA, August 2018-Present

Graduate Research Assistant (Advisor: J. Zico Kolter) Research on adversarial robustness in deep learning.

 ${\bf Bosch\ Center\ for\ Artificial\ Intelligence}, {\it Machine\ Learning\ Research\ Intern}$

Pittsburgh, PA, May 2021 - October 2021

Researched certified defenses against adversarial patch attacks.

The University of Texas at Austin

Austin, TX, August - December 2016

Undergraduate Research Assistant (Advisor: Robert A. van de Geijn)

Researched practical, Strassen-like fast matrix multiplication algorithms and performance optimization for the k-nearest neighbors kernel.

Texas Institute for Computational Engineering and Sciences

Austin, TX, June - August 2016

Moncrief Undergraduate Summer Research Intern (Advisor: Robert A. van de Geijn) Researched dense matrix multiplication performance optimization using Strassen's algorithm.

Applied Research Laboratories at the University of Texas

Austin, TX, September 2014 - May 2015

at Austin, Undergraduate Research Assistant, Space and Geophysics Lab

Developed anomaly detection algorithms for geospatial data.

Publications

Overfitting in adversarially robust deep learning

Leslie Rice*, Eric Wong*, J. Zico Kolter

International Conference on Machine Learning (ICML) 2020

Fast is better than free: Revisiting adversarial training

Eric Wong*, Leslie Rice*, J. Zico Kolter

 $International\ Conference\ on\ Learning\ Representations\ (ICLR)\ 2020$

Generating Families of Practical Fast Matrix Multiplication Algorithms

Jianyu Huang, Leslie Rice, Devin A. Matthews, Robert A. van de Geijn

IEEE International Parallel & Distributed Processing Symposium (IPDPS) 2017

Performance Optimization for the K-Nearest Neighbors Kernel using Strassen's Algorithm

Leslie Rice

Undergraduate Honors Thesis, The University of Texas at Austin, 2017

Industry Experience

Uber Advanced Technologies Group, Software Engineer

Pittsburgh, PA, March 2017 - August 2018

Developed web-based camera image labeling tools, built active learning system for image classification, and engineered autolabeling capabilities.

Able Lending, Software Engineer

Austin, TX, June 2015 - January 2016

Built data science pipeline for finding small business customers, and developed internal and customer-facing software for managing small business loans.

^{*}Equal contribution

Invited Talks

Implementing Strassen-Like Fast Matrix Multiplication Algorithms with BLIS (with Jianyu Huang), BLIS Retreat, The University of Texas at Austin

Austin, TX, September 2016

Teaching

Carnegie Mellon University, Graduate Teaching Assistant

Deep Learning Systems: Algorithms and Implementation (10-414/714)

Pittsburgh, PA, August - $December\ 2021$

Carnegie Mellon University, Graduate Teaching Assistant

Practical Data Science (15-388/688)

Pittsburgh, PA, August - December 2018

The University of Texas at Austin, $Undergraduate\ Teaching\ Assistant$

Austin, TX, January - May 2016

Principles of Computer Systems (CS-439)

Professional Activities

Reviewer for NeurIPS 2021

Reviewer for the ICLR 2021 workshop "Robust and Reliable Machine Learning in the Real World" Organizer of the ICML 2021 workshop "A Blessing in Disguise: The Prospects and Perils of Adversarial Machine Learning" Served on the 2021 PhD admissions committee for the CMU Computer Science Department