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DEEPTI RAGHAVAN

https://deeptir.me

EDUCATION

Stanford University
Computer Science Ph.D. Student   September 2018-present

Massachusetts Institute of Technology
M.Eng in EECS, *GPA 5.0/5.0*   2017-2018

Massachusetts Institute of Technology
S.B. in Computer Science (June 2017), *GPA 4.6/5.0*   2013-2017
Coursework includes: Computer Networks, Distributed Systems, System Security, Operating Systems, Performance Engineering, Machine Learning

PUBLICATIONS

"Model Assertions for Debugging Machine Learning." Daniel Kang*, **Deepti Raghavan***, Peter Bailis, Matei Zaharia. *Systems for ML Workshop at Neurips 2018*, Montreal, Canada.

"Restructuring Endpoint Congestion Control." Akshay Narayan, Frank Cangialosi, **Deepti Raghavan**, Prateesh Goyal, Srinivas Narayana, Radhika Mittal, Mohammad Alizadeh, Hari Balakrishnan. *SIGCOMM 2018*, Budapest, Hungary.

"Pantheon: the training ground for Internet congestion-control research." Francis Y. Yan, Jestin Ma, Greg Hill, **Deepti Raghavan**, Riad S. Wahby, Philip Levis, Keith Winstein. *Usenix ATC 2018*, Boston, MA. Awarded Best Paper!

RESEARCH EXPERIENCE

Stanford CS FutureData Group - Ph.D. Student   September 2018-Present
Advisor: Matei Zaharia
Build systems to aid debugging in machine learning, via tools from software quality assurance such as assertions.

MIT CSAIL NMS Lab - Research Assistant   January 2017-July 2018
Advisor: Hari Balakrishnan
Focused on systems that make congestion control development easier, including development of the Congestion Control Plane, and various congestion control measurement systems. Also collaborated closely with Keith Winstein and Mohammad Alizadeh.

TEACHING

MIT: *6.824, Distibuted Systems*: Teaching Assistant.   Spring 2018
MIT: *6.02, Introduction to EECS II*: Lab Assistant   Fall 2016
MIT: *6.004, Computation Structures*: Lab Assistant   Spring 2015

FELLOWSHIPS AND GRANTS

Stanford School of Engineering Fellowship   2018-2019

INDUSTRY EXPERIENCE

Cisco Meraki Switch Team - *Summer Intern*   June-August 2016
Implemented and pushed out the Radius Change of Authorization feature (CoA), an extension to the 802.1X authorization protocol, on Meraki's switch firmware. Implemented user interface for CoA and improved logging for switch events on Meraki's client dashboard.

Akamai Platform Infrastructure Team - *Summer Intern*   June - August 2015
Created interactive web application, with d3.js and web.py, that visualizes information related to the software installations performed on all the servers across Akamais networks.

IBM India Research Labs, Bangalore - *Summer Intern*   June - August 2014
Designed the fluid simulation for an Android application modeling a virtual chemistry laboratory, using OpenGL