Siva Kesava Reddy Kakarla

Computer Science (PhD), UCLA

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Interests

I am a third year PhD Student in the Network Verification (NetVerify) Group at University of California, Los Angeles. My research interests lie at the intersection of Networks and Programming Languages.

Education

2017 - Present M.S. and Ph.D. in Computer Science.

University of California, Los Angeles (UCLA), CA, USA.

CGPA: 4.0 / 4.0.

Advisors: Prof. Todd Millstein and Prof. George Varghese

2013 – 2017 B. Tech. in Computer Science and Engineering (Honors).

Indian Institute of Technology, Kharagpur, India. CGPA: 9.67 / 10.0.

Publications

SIGCOMM'20 GROOT: Proactive Verification of DNS Configurations. (Best Student Paper Award)

Siva Kesava Reddy Kakarla, Ryan Beckett, Behnaz Arzani, Todd Millstein, George Varghese.

Proceedings of the Conference of the ACM Special Interest Group on Data Communication, SIG-COMM 2020.

Artifact https://github.com/dns-groot/2020_SIGCOMM_Artifact_157

NSDI'20 Finding Network Misconfigurations by Automatic Template Inference (SelfStarter).

Siva Kesava Reddy Kakarla, Alan Tang, Ryan Beckett, Karthick Jayaraman, Todd Millstein, Yuval Tamir, George Varghese.

Proceedings of the 17th USENIX Symposium on Networked Systems Design and Implementation, NSDI 2020, pages 999–1013.

Artifact https://github.com/SivaKesava1/SelfStarter

arXiv'19 Expect More from the Network: DDoS Mitigation by FITT in Named Data Networking.

Zhiyi Zhang, Vishrant Vasavada, Siva Kesava Reddy Kakarla, Eric Osterweil, and Lixia Zhang.

CoRR, abs-1902-09033.

GLOBECOM'17 IEEE 802.11ac DBCA: A Tug of War between Channel Utilization and Fairness.

Mahankali Saketh, Siva Kesava Reddy Kakarla, Raja Karmakar, Samiran Chattopadhyay, Sandip Chakraborty.

Proceedings of the IEEE Global Communications Conference, 2017, pages 1–6.

Awards and Honors

2020 "Best Student Paper" award at the ACM SIGCOMM 2020

2018–2019 UCLA Dean's Graduate Student Research (GSR) Fellowship

2017 UCLA Graduate Dean's Scholar Award (GDSA), the prestigious award offered to the department's top incoming PhD student

2013 – 2017	JBNSTS Scholarship	
2013	All India Rank-330 in IIT-JEE Advance	
2013	All India Rank-229 in Joint Entrance Examination(JEE) Mains	
2011 – 2013	KVPY Fellowship from Dept. of Science and Technology, India	
	Talks and Presentations	
Aug '20	GROOT – The 2020 ACM SIGCOMM Conference	Virtual
Jul '20	GROOT – Intentionet	Virtual
Feb '20	SELFSTARTER – The 2020 NSDI Conference	Santa Clara, CA
Sep '19	GROOT – MNR Group, Microsoft Research	Redmond, WA
Aug '19	SELFSTARTER – Intentionet and Microsoft Research	Seattle/Redmond, WA
	Research Experience	
Google	From Text to Graph Templating of Google Metro Networks	
(Intern)	with Jayaram Mudigonda and, Anees Shaikh, NetInfra Group.	Summer '20
Microsoft	GROOT: Proactive Verification of DNS Configurations	
(Intern, Remote)	with Ryan Beckett, Behnaz Arzani (MNR Group, MSR), Prof. Todd Millstein and, Prof. George Varghese Summer '19 – Spring '20	
IICI A	Finding Network Misconfigurations by Automatic Template Inference	, ,
(Graduate RA)	with Ryan Beckett (Mobility and Networking group, Microsoft Research), (Windows Azure security group, Microsoft), Prof. Todd Millstein, Prof. Y	Karthick Jayaraman
UCLA	Producer-Assisted Pushback	
(Course Project)	with <i>Prof. Lixia Zhang</i> , Internet Research Lab.	Winter '18 – Spring '18
IIT Kharagpur (UG Thesis)	Does QUIC Kill Your Data Plan? A View Using YouTube Adaptive Streaming Clients with Prof. Sandip Chakraborty, Complex Network Research Group (CNeRG). Fall '16 – Spring '17	
IIT Kharagpur (UG RA)	IEEE 802.11ac DBCA: A Tug of War Between Channel Utilization & Fai with <i>Prof. Sandip Chakraborty</i> , Complex Network Research Group (CNeRG).	rness Fall '16 – Spring '17
IISc Bangalore	Experimenting with Akka Package	
(Intern)	with <i>Prof. Komondoor V. Raghavan</i> , Compilers, PL and SE Group.	Summer '15
	Professional Experience	
LinkedIn	Enhancement of LinkedIn spam detection tool with dependency in	njection model and

Teaching Experience

UCLA CS 118 – Computer Network Fundamentals

(Intern) with *Prashanth Nimmagadda*, Content Filtering & Spam Detection Team.

Fall '19

Summer '16

Graduate Teaching Assistant