

DR. VIVEK ADARSH

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EDUCATION	University of California, Santa Barbara <i>Doctor of Philosophy (Ph.D.), Computer Science</i>	July 2022
	<i>Thesis: Autonomous and Predictive Systems to Enhance the Performance of Resilient Networks</i> <i>Advisor: Prof. Elizabeth Belding</i>	
	University of California, Santa Barbara <i>Master of Science (M.S.), Computer Science</i>	June 2018
	University of Pune <i>Bachelor of Technology (B.Tech), Electrical Engineering</i>	June 2016
PROFESSIONAL EXPERIENCE	Chief Executive Officer - AviAI, Inc. AviAI's cloud platform uses AI and Machine Learning to Reduce Baggage Mishandling for Airlines Responsibilities: Product development, Sales, and Fundraising	Aug 2022 - Present
	Research Associate Intern - Hewlett Packard Labs Networking and Distributed Systems Lab Project - SmartFabric: AI-Acceleration on the Fly using DPUs	Jun 2021 - Sep 2021
	Graduate Research Assistant University of California, Santa Barbara Department of Computer Science	Mar 2017 - Jun 2021
	Research Associate Intern - Hewlett Packard Labs Networked Systems Group Project - SARAS: Intelligent Edge Acceleration using SmartNICs	Jun 2020 - Sep 2020
	Software Engineer Intern - LogMeIn Inc. Predicting cloud infrastructure failures and automated troubleshooting using DeepLearning models.	Jun 2018 - Sep 2018
	Research Intern - EIGEN Technology Application of DSR and LEACH protocols on wireless sensor nodes (SenseNuts).	Jun 2015 - Aug 2015
	Research Intern - NVIDIA Singapore Automated extraction and conversion of unstructured video metadata to structured data (U2S) using parallel computing (Pascal architecture).	Jan 2015 - Apr 2015
AWARDS & RECOGNITION	<ul style="list-style-type: none">• 2nd Runner-up, New Venture Startup Competition• Won the <i>Best in Class</i> competition among 400 interns at Hewlett Packard Enterprise (international competition)	2021 2020

PRESS & MEDIA
COVERAGE

- **Millions of Americans can't get broadband because of a faulty FCC map. There's a fix.**
By Shara Tibken, CNET. February 19th 2021.
(CNET has the world's highest readership among Web news sites, with more than 200 million readers per month.)
Available here: <https://www.cnet.com/features/millions-of-americans-cant-get-broadband-because-of-a-faulty-fcc-map-theres-a-fix/>
 - **Networking and Distributed Systems Lab's intern wins Best in Class for summer project.**
By Curt Hopkins, Hewlett Packard Labs. September 24th 2020.
Available here: <https://community.hpe.com/t5/Advancing-Life-Work/Networking-and-Distributed-Systems-Lab-s-intern-wins-Best-in/ba-p/7102384#>
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PATENTS &
INVENTIONS

- **Directing Queries to Worker Nodes of a Cluster of a Container Orchestration Platform Distributed across a Host System and a Hardware Accelerator of the Host System**
Diman Zad Tootaghaj, Anu Mercian, **Vivek Adarsh**, Puneet Sharma.
Hewlett Packard Enterprise
US Patent Application – 17/222160
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REFEREED
PUBLICATIONS

- [1] **Characterizing Internet Access and Quality Inequities in California M-Lab Measurements**
Paul, Jiamo Liu, David Farias-Ilerenas, **Vivek Adarsh**, Arpit Gupta, Elizabeth Belding
ACM Conference on Computing Systems and Sustainable Societies (COMPASS 2022)
- [2] **Too Late for Playback: Estimation of Video Stream Quality in Rural and Urban Contexts**
Vivek Adarsh, Michael Nekrasov, Udit Paul, Alex Ermakov, Arpit Gupta, Morgan Vigil-Hayes, Ellen Zegura, Elizabeth Belding
Proceedings of the Passive and Active Measurement Conference (PAM '21)
- [3] **Characterizing Performance Inequity Across U.S. Ookla Speedtest Users**
Udit Paul, Jiamo Liu, **Vivek Adarsh**, Mengyang Gu, Arpit Gupta, Elizabeth Belding
arXiv preprint arXiv:2110.12038
- [4] **Estimation of Congestion from Cellular Walled Gardens using Passive Measurements**
Vivek Adarsh, Michael Nekrasov, Udit Paul, Elizabeth Belding
IEEE Transactions on Mobile Computing.
- [5] **Coverage is Not Binary: Quantifying Mobile Broadband Quality in Urban, Rural, and Tribal Contexts**
Vivek Adarsh, Michael Nekrasov, Udit Paul, Tarun Mangla, Arpit Gupta, Morgan Vigil-Hayes, Ellen Zegura, Elizabeth Belding
Proceedings of the IEEE 30th International Conference on Computer Communications and Networks (ICCCN '21)

- [6] **A Tale of Three Datasets: Towards Characterizing Mobile Broadband Access in the United States**
Tarun Mangla, Esther Showalter, **Vivek Adarsh**, Kipp Jones, Morgan Vigil-Hayes, Elizabeth Belding, Ellen Zegura
Communications of the ACM (CACM)
- [7] **Packet-level Overload Estimation in LTE Networks using Passive Measurements**
Vivek Adarsh, Michael Nekrasov, Ellen Zegura, Elizabeth Belding
Proceedings of the Internet Measurement Conference (IMC '19)
- [8] **#Outage: Detecting Power and Communication Outages from Social Networks**
Udit Paul, Alex Ermakov, Michael Nekrasov, **Vivek Adarsh**, Elizabeth Belding
Proceedings of the World Wide Web Conference (WWW '20)
- [9] **MPTCP Performance over Heterogeneous Subpaths**
Vivek Adarsh, Paul Schmitt, Elizabeth Belding.
IEEE 28th International Conference on Computer Communication and Networks (ICCCN '19)
- [10] **Evaluating LTE Coverage and Quality from an Unmanned Aircraft System**
Michael Nekrasov, **Vivek Adarsh**, Udit Paul, Esther Showalter, Ellen Zegura, Morgan Vigil-Hayes and Elizabeth Belding
IEEE 16th International Conference on Mobile Ad Hoc and Sensor Systems (MASS '19)

INVITED TALKS

- **Decoding Cellular Walled Gardens**
Google Inc. (NetInfra Team) February 2020

PROFESSIONAL SERVICES

- Technical Program Committee, ACM SIGCOMM Artifact Evaluation Committee 2021
- External Reviewer, IEEE Wireless Communications and Networking Conference (WCNC) 2021
- External Reviewer, IEEE Wireless Communications Letters Journal 2020
- Judge, SB Hacks VII (UCSB's Annual Hackathon Competition) 2021

STUDENT MENTORSHIP

- [Research Project] A study of QoE-estimation models
 - **Khalid Mihlar** (BS, Computer Science, UCSB)
- [Research Project] Edain: A Comprehensive Network Monitoring Suite
 - **Anurag Bansal** (BS, Computer Science, IIT Roorkee)
 - **Jitesh Jain** (BS, Computer Science, IIT Roorkee)
 - **Ria Elizabeth John** (BS, Computer Science, IIT Roorkee)
- [Research Project] Quantifying Video Streaming Quality on Mobile Broadband
 - **David Weinflash** (MS, Computer Science, UCSB)
- MobiSys 2021 Mentorship Program
 - **Ashwin Shaji and Mallikarjun Reddy**

TEACHING

- Introduction to Computer Networks (CMPSC 176A) Spring 2019
 - Computer Networking (CMPSC 176B) Winter 2019
 - Introduction to Computer Networks (CMPSC 176A) Fall 2018
 - Introduction to Computer Networks (CMPSC 176A) Spring 2018
 - Computer Networking (CMPSC 176B) Winter 2018
 - Introduction to Computer Networks (CMPSC 176A) Fall 2017
 - Advanced Topics in Internet Computing (CMPSC 176C) Spring 2017
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