

Abdul Wasay

PhD Candidate, Harvard School of Engineering and Applied Sciences

Contact Information	33 Oxford Street, MD117 Cambridge, MA 02138	awasay@seas.harvard.edu http://daslab.seas.harvard.edu/people/awasay
Research Interests	High performance machine learning systems – Data exploration systems – Interactive data systems	
Education	Harvard University , Cambridge, MA <i>Doctor of Philosophy in Computer Science</i> – Thesis: Queriosity: Accelerating Machine Learning and Data Science (daslab.seas.harvard.edu/queriosity) [WIP] – Advisor: Prof. Stratos Idreos	August 2016 – present
	Harvard University , Cambridge, MA <i>Masters of Science in Computer Science</i>	August 2014 – May 2016
	Lahore University of Management Sciences (LUMS) , Lahore, Pakistan <i>Bachelors of Science in Computer Science</i> – Dean's Honor List with rank: 2 – Thesis: Rethinking Buffer Management in Data Center Networks – Advisor: Prof. Ihsan A. Qazi and Prof. Zartash A. Uzmi	August 2010 – May 2014
	Honours and Awards	2019 2017 2015 2013 2013 2010 – 2014
	Professional Experiences	Cambridge, MA August 2014 – Present
	Ashesi University <i>Archer-Cornfield Fellow</i>	Berekuso, Ghana August 2019 – Present
	Harvard University <i>Instructor at Harvard Summer School</i> – Designed and taught Harvard's first summer hybrid course on data systems and machine learning – Organized and managed the course with a team of two teaching fellows	Cambridge, MA May 2019 – August 2019
	Harvard University <i>Resident Tutor at Harvard College</i> – Providing academic advising to Harvard undergraduates – Mentoring and providing support to a group of 30 diverse students every academic year – Fostering a sense of community at Quincy House, one of Harvard's 12 residential houses	Cambridge, MA August 2015 – May 2019

	Hewlett Packard Enterprise <i>Summer research intern at Arcsight</i> Advisors: Alkis Simitsis and Martin Arlitt – Designed and evaluated a strategy to summarize network traffic data (<i>patent applied</i>)	Sunnyvale, CA June 2017 – August 2017
	École Polytechnique Fédérale de Lausanne (EPFL) <i>Summer research intern</i> Advisors: Prof. Matthais Grossglauser and Ehsan Kazemi – Incorporating community structure for social graph de-anonymization	Lausanne, Switzerland June 2013 – June 2013
Publications	Rapid Deep Ensemble Learning. Abdul Wasay , Yuze Liao, and Stratos Idreos. <i>Preprint 2018.</i> Learning Data Structure Alchemy. Stratos Idreos, Kostas Zoumpatianos, Subarna Chatterjee, Wilson Qin, Abdul Wasay , Brian Hentschel, Mike Kester, Niv Dayan, Demi Guo, Minseo Kang, and Yiyoun Sun <i>IEEE Data Engineering, 2019.</i> The Periodic Table of Data Structures. Stratos Idreos, Konstantinos Zoumpatianos, Manos Athanassoulis, Niv Dayan, Brian Hentschel, Michael S. Kester, Demi Guo, Lukas Maas, Wilson Qin, Abdul Wasay , Yiyoun Sun. <i>IEEE Data Engineering, 2018.</i> Data Canopy: Accelerating Exploratory Statistical Analysis. Abdul Wasay , Xinding Wei, Niv Dayan, and Stratos Idreos. <i>In Proceedings of ACM SIGMOD, New York, USA, 2017.</i> Queriosity: Automatic Data Exploration. Abdul Wasay , Manos Athanassoulis, and Stratos Idreos. <i>In Proceedings of IEEE International Congress on BigData, New York, USA, 2015.</i> Rethinking Buffer Management In Data Center Networks. Aisha Mushtaq, Asad K. Ismail, Abdul Wasay , Bilal Mahmood, Ihsan A. Qazi, and Zartash A. Uzmi. <i>In Proceedings of the ACM SIGCOMM, New York, USA, 2014.</i>	
Teaching Fellow	Harvard University – Teaching Fellow, CS165: Data Systems – Teaching Fellow, CS265: Big Data Systems – Teaching Fellow, AC297r: Capstone Projects	Fall 2018, Fall 2017, Fall 2015 Spring 2019, Spring 2018 Spring 2016
	Lahore University of Management Sciences (LUMS) – Teaching Assistant, CS211: Discrete Mathematics – Coach in advanced mathematics, National Outreach Program (NOP)	Spring 2014, Spring 2012 Summer 2012
Advising	Research Advisor (to DASlab Interns and Undergraduates) Yuze Liao (Tsinghua University) – <i>Project: Rapid Deep Ensemble Learning</i> Xinding (Tsinghua University) – <i>Project: Accelerating Statistical Data Analysis</i> Zichen Zhu (Tsinghua University) and Yash Bolisetty (Thomas Jefferson High School (TJHST)) – <i>Project: Reinforcement learning to visualize data</i> Dhruv Gupta (TJHST) – <i>Now at Harvard College</i> – <i>Project: Interactive data exploration front ends</i> Nithin Tumma (Harvard College, AB '16) – <i>Now co-founder at Side</i> – <i>Project: Sketching techniques for data exploration</i>	