

Research Interests	Monitoring and Management of Large-Scale Systems and Software, Machine Learning, End-to-end Tracing, Data Analysis, Cloud Computing, High Performance Computing	
Education	Boston University, Electrical and Computer Engineering Dept.	2015 - Present
	PhD in Computer Engineering (Advisor: Prof. Ayşe K. Coşkun) Coursework: Advanced Data Structures, Computer Architecture, Digital Design, Embedded Systems, Data Mining, Operating Systems, Cybersecurity, Advanced Computer Systems	GPA: 3.93
	Middle East Technical University (METU), Turkey	2010 - 2015
	B.S. in Electrical and Electronics Engineering Minor in History of Philosophy	GPA: 3.23, Ranking: 37 th /353 GPA: 3.50
Research Experience	PeacLab Research Group , Boston, MA	September 2015 – present
	Researched on data center monitoring and analytics, interference in HPC and cloud systems, end-to-end tracing of distributed applications.	
Software Skills	<i>Programming Languages:</i> Verilog, C, C++, Java, Python, Perl, R, Bash (and other shell) <i>Environments and Tools:</i> OpenStack, scikit-learn, Vowpal Wabbit, Autotools, L ^A T _E X	
Selected Publications	E. Ates , Y. Zhang, B. Aksar, J. Brandt, V.J. Leung, M. Egele, A.K. Coskun, “HPAS: An HPC Performance Anomaly Suite for Reproducing Performance Variations,” in <i>Intl. Conf. on Parallel Processing (ICPP)</i> , Kyoto, 2019.	
	O. Tuncer, E. Ates , Y. Zhang, A. Turk, J. Brandt, V.J. Leung, M. Egele, A.K. Coskun, “Online Diagnosis of Performance Variation in HPC Systems Using Machine Learning,” in <i>IEEE Trans. on Parallel and Distributed Systems</i> , vol. 30, no. 4, pp. 883-896, 2019.	
	Q. Xiong, E. Ates , M.C. Herbordt, A.K. Coskun, “Tangram: Colocating HPC Applications with Oversubscription,” in <i>IEEE High Performance Extreme Computing Conf.</i> , Boston, 2018.	
	E. Ates , O. Tuncer, A. Turk, J. Brandt, V.J. Leung, M. Egele, A.K. Coskun, “Taxonomist: Application Detection through Rich Monitoring Data,” in <i>European Conf. on Parallel and Distributed Systems (Euro-Par)</i> , Torino, 2018.	
	O. Tuncer, E. Ates , Y. Zhang, A. Turk, J. Brandt, V.J. Leung, M. Egele, A.K. Coskun, “Diagnosing Performance Variations in HPC Applications using Machine Learning,” in <i>Int. Supercomputing Conf. (ISC-HPC)</i> , Frankfurt, 2017.	
Internships	Google LLC , New York, NY	Spring 2019
	As part of the Google Wide Profiling team, optimized the memory allocator TCMalloc.	
	Lawrence Livermore National Laboratory , Livermore, CA	Summer 2017
	Investigated the effect of power, network QoS, external traffic, number of processes, etc. on different supercomputing benchmarks, used machine learning to model performance.	
	Sandia National Laboratories , Albuquerque, NM	Summer 2016
	Analyzed system monitoring data to automatically detect and classify anomalies in HPC clusters. Investigated allocation and task mapping algorithms for dragonfly systems.	
Teaching Experience	Applied Algorithms and Data Structures , Boston University	Spring 2016, Fall 2016
	Head TA; held weekly discussion sessions, graded exams/assignments, coordinated the graders.	
Awards and Scholarships	Best Artifact Award at Euro-Par	August 2018
	Given for the data, code and Jupyter Notebooks released with the publication	
	Gauss Award at ISC-HPC	June 2017
	Research paper award given by German Gauss Center for Supercomputing	
Invited Talks	“Diagnosing Performance Variations in HPC Applications Using Machine Learning”, Lawrence Berkeley National Laboratory - NERSC, July 2017.	