

Research Interests	Monitoring and Management of Large-Scale Systems and Software, Machine Learning, 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) GPA: 3.93 Coursework: Advanced Data Structures, Computer Architecture, Digital Design, Embedded Systems, Data Mining, Operating Systems, Cybersecurity, Advanced Computer Systems	
	Middle East Technical University (METU), Turkey 2010 - 2015 B.S. in Electrical and Electronics Engineering GPA: 3.23, Ranking: 37 th /353 Minor in History of Philosophy GPA: 3.50	
Research Experience	PeacLab Research Group , Boston, MA <i>September 2015 – present</i> Researched on data center monitoring and analytics, interference in HPC and cloud systems, end-to-end tracing of distributed applications.	
	BioMEMS Research Group , Ankara, Turkey <i>June 2014 – June 2015</i> Improved sensing circuitry of a MEMS based Coulter counter.	
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	
Publications	Ozan Tuncer, Emre Ates , Yijia Zhang, Ata Turk, Jim Brandt, Vitus Leung, Manuel Egele, Ayse K. Coskun, “Online Diagnosis of Performance Variation in HPC Systems Using Machine Learning,” to appear in <i>IEEE Trans. on Parallel and Distributed Computing</i> (TPDS), 2018. Qingqing Xiong, Emre Ates , Martin C. Herbordt, Ayse K. Coskun, “Tangram: Colocating HPC Applications with Oversubscription,” to appear in <i>IEEE High Performance Extreme Computing Conf. (HPEC)</i> , Boston, 2018. Emre Ates , Ozan Tuncer, Ata Turk, Jim Brandt, Vitus Leung, Manuel Egele, Ayse K. Coskun, “Taxonomist: Application Detection through Rich Monitoring Data,” to appear in <i>European Conf. on Parallel and Distributed Systems</i> (Euro-Par), Torino, 2018. Ozan Tuncer, Emre Ates , Yijia Zhang, Ata Turk, Jim Brandt, Vitus Leung, Manuel Egele, Ayse K. Coskun, “Diagnosing Performance Variations in HPC Applications using Machine Learning,” in <i>Int. Supercomputing Conf. (ISC-HPC)</i> , Frankfurt, 2017.	
Internships	Lawrence Livermore National Laboratory , Livermore, CA <i>Summer 2017</i> 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 <i>Summer 2016</i> Analyzed system monitoring data to automatically detect and classify anomalies in HPC clusters. Investigated allocation and task mapping algorithms for dragonfly systems.	
	ASELSAN AŞ (Military Electronic Industries), Ankara, Turkey <i>Summer 2013</i> Improved the performance of a radar simulation in MATLAB, added 3D capabilities.	
Teaching Experience	Applied Algorithms and Data Structures , Boston University <i>Spring 2016, Fall 2016</i> Head TA; held weekly discussion sessions, graded exams/assignments, coordinated the graders.	
Awards and Scholarships	Gauss Award at ISC-HPC June 2017 Research paper award given by German Gauss Center for Supercomputing Bülent Kerim Altay Award METU Spring 2011 For achieving 4.0 GPA	
Invited Talks	“Diagnosing Performance Variations in HPC Applications Using Machine Learning”, Lawrence Berkeley National Laboratory - NERSC, July 2017.	