

<b>Research Interests</b>	Monitoring and Management of Large-Scale Systems and Software, Machine Learning, End-to-end Tracing, Data Analysis, Cloud Computing, High Performance Computing	
<b>Education</b>	<b>Boston University, Electrical and Computer Engineering Dept.</b>	2015 - Present
	PhD in Computer Engineering (Advisor: Prof. Ayşe K. Coşkun) <b>Coursework:</b> Advanced Data Structures, Computer Architecture, Digital Design, Embedded Systems, Data Mining, Operating Systems, Cybersecurity, Advanced Computer Systems	GPA: 3.93
	<b>Middle East Technical University (METU), Turkey</b>	2010 - 2015
	B.S. in Electrical and Electronics Engineering Minor in History of Philosophy	GPA: 3.23, Ranking: 37 <sup>th</sup> /353 GPA: 3.50
<b>Research Experience</b>	<b>PeacLab Research Group</b> , 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.	
<b>Software Skills</b>	<i>Programming Languages:</i> Verilog, C, C++, Rust, Java, Python, Perl, R, Bash (and other shell) <i>Environments and Tools:</i> OpenStack, scikit-learn, Vowpal Wabbit, Autotools, L <sup>A</sup> T <sub>E</sub> X	
<b>Selected Publications</b>	<b>E. Ates</b> , 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, <b>E. Ates</b> , 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, <b>E. Ates</b> , M.C. Herbordt, A.K. Coskun, “Tangram: Colocating HPC Applications with Oversubscription,” in <i>IEEE High Performance Extreme Computing Conf.</i> , Boston, 2018.	
	<b>E. Ates</b> , 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, <b>E. Ates</b> , 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.	
<b>Internships</b>	<b>Google LLC</b> , New York, NY	Spring 2019
	As part of the Google Wide Profiling team, optimized the memory allocator TCMalloc.	
	<b>Lawrence Livermore National Laboratory</b> , 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.	
	<b>Sandia National Laboratories</b> , 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.	
<b>Teaching Experience</b>	<b>Applied Algorithms and Data Structures</b> , Boston University	Spring 2016, Fall 2016
	Head TA; held weekly discussion sessions, graded exams/assignments, coordinated the graders.	
<b>Awards and Scholarships</b>	<b>Best Artifact Award</b> at Euro-Par	August 2018
	Given for the data, code and Jupyter Notebooks released with the publication	
	<b>Gauss Award</b> at ISC-HPC	June 2017
	Research paper award given by German Gauss Center for Supercomputing	
<b>Invited Talks</b>	“Diagnosing Performance Variations in HPC Applications Using Machine Learning”, Lawrence Berkeley National Laboratory - NERSC, July 2017.	