Emre Ateş

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Research Interests	Monitoring and Management of Large Scale Systems, Computer Architecture, Cloud Computing, HPC

Education

Boston University — 2015 - Present
PhD in Computer Engineering — GPA: 3.94
Advisor: Prof. Ayşe Kıvılcım Coşkun · Electrical and Computer Engineering Dept.

Middle East Technical University (METU) — 2010 - 2015
B.S. in Electrical and Electronics Engineering — GPA: 3.23, Ranking: 37th among 353
Minor in History of Philosophy — GPA: 3.50

Research Experience

Peac Lab Research Group — Research Assistant
Boston, MA — *September 2015 – present*
Researched on data center monitoring and analytics, interference in HPCs and cloud systems

BioMEMS Research Group — Voluntary Research Assistant
Ankara, TURKEY — *June 2014 – June 2015*
Improved sensing circuity of a MEMS based Coulter counter.

Qualifications

Programming Languages: Verilog, Assembly, C, C++, Java, Python, Perl, Bash, MatLab

Languages: English (fluent), Turkish (native), German (intermediate), Finnish (beginner)

Publications

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," to appear in *Int. Supercomputing Conf.* (ISC-HPC), Frankfurt, 2017.

Internships

Lawrence Livermore National Laboratory — Internship
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 the performance.

Sandia National Laboratories — Internship
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.

ASELSAN AŞ (Military Electronic Industries) — Internship
Ankara, TURKEY — *Summer 2013*
Improved the performance of an existing 2D radar simulation, to make 3D simulations feasible.

Teaching Experience

Applied Algorithms and Data Stuctures — Graduate Teaching Assistant
Boston University — *Spring 2016, Fall 2016*
Weekly discussion session, checking exams and homeworks, coordinating the graders.

Awards and Scholarships

Gauss Award ISC-HPC — June 2017
Research paper award given by German Gauss Center for Supercomputing

A. Richard Newton Young Fellowship DAC — June 2015
Student fellowship to attend the 53rd Design Automation Conference

Distinguished ECE Fellowship Boston University — September 2015 - September 2016
Includes full tuition coverage with monthly stipend

Bülent Kerim Altay Award METU — Spring 2011
For achieving 4.0 GPA

Cousework in BU Advanced Data Structures, Computer Architecture, Advanced Digital Design with Verilog and FPGA, Introduction to Embedded Systems, Data Mining, Operating Systems