Dmitry Duplyakin
Curriculum vitae

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NOW **Postdoctoral Researcher**
Flux Research Group
School of Computing, University of Utah

2017 **Ph.D. in Computer Science**
University of Colorado - Boulder

2012 **M.S. in Computer Science**
University of Colorado - Boulder

2008 **B.S. in Applied Math and Computer Science (Cum Laude)**
Samara University, Russia

Research Interests

Cloud: from virtualization to high-level orchestration tools and containers; resource allocation and elasticity management.

High Performance Computing: design and optimization of computing systems; design of experiments for supercomputers.

Machine Learning: Active Learning and other Machine Learning techniques applied to practical system & application performance analysis.

Research Experience

MAY 2015 – PRESENT
University of Utah, Flux Research Group
Research Assistant

Contribute to CloudLab, a large-scale NSF-funded testbed for cloud and distributed systems research, and develop workflows and tools for efficient configuration and experiment management.

AUGUST 2015 – MAY 2017
University of Colorado - Boulder
Research Assistant

Develop and evaluate techniques for predictive modeling in analysis of performance and energy consumption of parallel applications, including codes for Adaptive Mesh Refinement.

MAY 2014 – AUGUST 2014
University of Chicago, Computation Institute
Summer Intern

Work with the Globus Genomics team and develop enhancements to the cloud-based Galaxy science gateway infrastructure.

MAY 2011 – SEPTEMBER 2012
National Center for Atmospheric Research
System Administrator

Cluster administration, performance analysis.

Teaching Experience

2016 Prepared and presented hands-on cloud-focused tutorials at NSFCloud For Everyone and GENI Regional Workshop.

2011-2015 TAed for Intro to Programming, Principles of Programming Languages, and High Performance Scintific Computing classes at University of Colorado-Boulder.

2012 Taught a class "CS1: Intro to Programming" (260 students) at University of Colorado-Boulder.

Recent Publications

2017 Machine and Application Aware Partitioning for Adaptive Mesh Refinement Applications @ **ACM HPDC'17**

2017 The Part-Time Cloud: Enabling Balanced Elasticity Between Diverse Computing Environments @ **ScienceCloud'17**

2016 Active Learning in Performance Analysis @ **IEEE Cluster'16**

Published and presented papers at **CNERT '16**, **ScienceCloud'15**, **CCGrid'15**, and **ScienceCloud'13**.

Professional Service

- Conference PC member for IPDPS'18.
- Faculty search committee, Dept. of Computer Science, University of Colorado, Spring'17.
- Student volunteer at Supercomputing'16 and IEEE Cluster'13 conferences.
- Mentor for undergraduate and graduate CS students at University of Colorado.

Software skills

COMPUTING	MPI, OpenMP, OpenACC, multithreaded, Hadoop, Spark
SYSTEMS	Linux, bash scripting, DevOps with Chef, HPC cluster administration, OpenStack and container management
PROGRAMMING	Python, C, C++, Java, R, MATLAB

References

Robert Ricci (advisor in the Flux Research Group)
Jed Brown (advisor at University of Colorado)

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