DANIEL S. MYERS

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Education

University of Wisconsin-Madison, Computer Sciences　　　　　2008-2014
Ph.D., June 2014
Dissertation: *Quantitative Storage System Design*
Advisors: Mary K. Vernon and Remzi H. Arpaci-Dusseau

University of Florida, Computer Engineering　　　　　2000-2005
M.S., December 2005
Thesis: *Hyperspectral End-Member Detection with Morphological Neural Networks*
Advisor: Gerhard X. Ritter

B.S., *summa cum laude*, May 2004

Professional Experience

Rollins College　　　　　Winter Park, FL
Assistant Professor of Computer Science　　　　　2014-Present

Google　　　　　Madison, WI
Research Intern　　　　　2011

Sandia National Laboratories　　　　　Albuquerque, NM
Senior Member of Technical Staff　　　　　2006-2008

Research Interests

Computer performance analytics using machine learning and big data, Queueing theory, Simulation and modeling, Computer science education

Publications

Undergraduate student co-authors at Rollins College are <u>underlined</u>

S.R. Shrestha, D.S. Myers, and R.A. Lewin. "Optimizing Strategies for Monopoly: the MEGA Edition Using Genetic Algorithms and Simulations". *Academy of Economics and Finance Journal*, vol. 7 (2016). *Forthcoming.*

D.S. Myers, J. Rickman, J. Yellen, and R. Zere. "Comparing Exact and Heuristic Algorithms for a Course Timetabling Problem". In *Proc. of the 11th International Conference on the Practice and Theory of Automated Timetabling* (PATAT 2016). Udine, Italy, 8/2016.

N. Chatlani and D.S. Myers. "Implementing an Adaptive Tutorial System for Coding Literacy Education". In *Proc. of the 47th ACM Technical Symposium on Computer Science Education* (SIGCSE 2016). Memphis, TN, 3/2016.

S.R. Shrestha, D.S. Myers, and R.A. Lewin. "Genetic Algorithm Optimization of Monopoly: the MEGA Edition". In *Proc. of the 53rd Annual Meeting of the Academy of Economics and Finance*. Pensacola, FL, 2/2016.

D.S. Myers and M.K. Vernon. "Identifying the Causes of High Latencies in Storage Traces with Workload Decomposition and Feature Selection". In *Proc. of Performance and Capacity 2015*. San Antonio, TX, 11/2015.

D.S. Myers. "Simulating Variability in Sales Pipelines". In *Proc. of the Southeast INFORMS Annual Meeting 2015* (SEINFORMS 2015). Myrtle Beach, SC, 10/2015.

D.S. Myers. *Quantitative Storage System Design*. Doctoral Dissertation. University of Wisconsin-Madison, 2014.

Y. Zhang, D.S. Myers, A.C. Arpaci-Dusseau, R.H. Arpaci-Dusseau. "Zettabyte Reliability with Flexible End-to-end Data Integrity". In *Proc. of the 29th IEEE Conference on Massive Data Storage* (MSST '13). Long Beach, CA, 5/2013.

D.S. Myers and M.K. Vernon. "Estimating Queue Length Distributions for Queues with Random Arrivals". *ACM SIGMETRICS Performance Evaluation Review*, v.40 n.3, pp. 77-79, 12/2012.

K.W. Larson, M.J. Procopio, A.I. Gonzales, D.K. Melgaard, F. Rothganger, D.S. Myers, and B.R. Rohrer. "Image Data Processing for Integrated Circuit Analysis". SAND Report 2009-8404. Sandia National Laboratories, Albuquerque, NM, 2009.

D.S. Myers, D.K. Melgaard, P.J. Lewis, and R.H. Byrne. "Impact of wavelet types on image data characteristics during compression". In *Proc. of Mathematics of Data/Image Pattern Recognition XI*. San Diego, CA, 8/12/2008.

D.S. Myers, A.I. Gonzales, F.H. Rothganger, and K.W. Larson. "Implementing Wide Baseline Matching Algorithms on a Graphics Processing Unit". SAND Report 2007-6301. Sandia National Laboratories, Albuquerque, NM, 2007.

D.S. Myers. "The Synaptic Morphological Perceptron". In *Proc. of Mathematics of Data/Image Pattern Recognition IX.* San Diego, CA, 8/2006.

L.A. Jensen, J.R. Hipp, R.Q. Villanueava, D.S. Myers, B. Ammons, and J.H. Gauthier. "PGL-Server: development of a stand-alone server-based Earth-model library for seismic monitoring". *In Proc. from the 28th Seismic Research Review: Ground-Based Nuclear Explosion Monitoring Technologies*, Vol. 1, pp. 976-986, 2006.

D.S. Myers. "Hyperspectral End-Member Detection with Morphological Neural Networks". Master's Thesis, University of Florida. 12/2005.

P.C. Reeves, S. Ballard, J.R. Hipp, C.J. Young, D.S. Myers, and B. Ammons. "Improved representation and calculation of base model travel times using the Parametric Grid Library". In *Proc. from the 27th Seismic Research Review: Ground-Based Nuclear Explosion Monitoring Technologies*, Vol. 1, pp. 393-402, 2005.

Presentations, Talks and Other Writing

"Understanding Data". Invited presentation on predictive analytics for Auritas, Inc. Orlando, FL, 3/2016.

With N. Chatlani. "Implementing an Adaptive Tutorial System for Coding Literacy Education". Poster presentation at SIGCSE 2016. Memphis, TN, 3/2016.

"What I Learned at the Sullivan Foundation Retreat". Rollins Innovation Hub Blog. rollinsinnovationhub.wordpress.com. 1/2016.

"Identifying the Root Causes of High Latencies in Commercial Storage Workloads". Rollins College Faculty Day of Scholarship. Winter Park, FL, 1/2016.

"Identifying the Causes of High Latencies in Storage Traces with Workload Decomposition and Feature Selection". Performance and Capacity 2015. San Antonio, TX, 11/2015.

"Simulating Variability in Sales Pipelines". Southeast INFORMS Annual Meeting 2015. Myrtle Beach, SC, 10/2015.

Interviewed by G. Dawson for an article on queueing and lines. "The Bottom Line". *Orlando Magazine.* 2/2015.

"Quantitative Design of Storage Systems". Invited Talk. Google Madison. Madison, WI, 11/2013

"Estimating Queue Length Distributions for Queues with Random Arrivals". Mathematics of Modeling and Analysis (MAMA 2012). London, UK, 6/2012.

"Performance Models for Google's Storage Infrastructure". Google Madison. Madison, WI, 9/2011

"Performance Models for Google's Storage Infrastructure". Google Storage Performance Research Group. 9/2011

"The Synaptic Morphological Perceptron". Mathematics of Data/Image Pattern Recognition IX. San Diego, CA, 8/2006.

Teaching

Rollins College

Introduction to Computer Systems*	Fall 2016
Creating the Future (general education capstone)†	Fall 2016
Computer Security	Spring 2016
System Software Principles*	Spring 2016
Introduction to Computer Systems*	Fall 2015
Starting a Tech Company†	Fall 2015
Problem Solving II with Java (Data Structures and Algorithms)*	Spring 2015
Advanced Computer Systems	Fall 2014
Problem Solving II with Java (Data Structures and Algorithms)	Fall 2014
Computer Networks	Fall 2014

† General education course
* Two sections

University of Wisconsin-Madison

Operating Systems	Spring 2014
Operating Systems	Fall 2013
Computer Systems Modeling Fundamentals	Spring 2012
Linear Programming (Teaching Assistant)	Fall 2009

Wisconsin Center for Academically Talented Youth (WCATY)

Intro to Computer Science	2009-2013 (six summers)

Student Research Projects and Theses Supervised

Ruzgar Zere	2016
Comparing Exact and Heuristic Course-Timetabling Algorithms	Student-Faculty Research

Neeraj Chatlani	2015-2016
User-Centered Design of a Course-Timetabling Interface	Student-Faculty Research
Adaptive Tutorial Systems for Coding Literacy Education	Student-Faculty Research

Shree Raj Shrestha 2015
Genetic Algorithm Optimization of Monopoly Student-Faculty Research

Joseph Young 2015
Intelligent Agents in Game Development Honors Thesis

Grants and Awards

Rollins College Student-Faculty Collaborative Scholarship Program ($13000) 2016
Mindlin Foundation ($2500) 2015
   "Implementing an Adaptive Tutorial System for Coding Literacy Education"
Rollins College Student-Faculty Collaborative Scholarship Program ($12650) 2015
SIGMETRICS/Performance Travel Grant 2012
University of Wisconsin Alumni Scholarship 2008
Tau Beta Pi National Engineering Honor Society 2001

Professional Service and Development

Mayor of the Innovate, Create, Elevate (ICE) general education neighborhood 2016-Present
Faculty member, Ashoka U Changemaker Campus renewal initiative 2016
Finance and Services Committee 2015-2016
Innovate, Create, Elevate (ICE) general education neighborhood 2015-Present
Sponsored faculty attendee, Sullivan Foundation IGNITE Retreat 2015
Search committee for tenure-track professor of computer science 2015-2016
Search committee for visiting assistant professor of computer science 2015
Reviewer for *The Computer Journal* 2012-2014
Judge, Capital Science and Engineering Fair 2012
Reviewer for *IEEE Trans. on Signal Processing* 2009-2011
UW-Madison Graduate Admissions Committee 2009

Music

Florida Old-Time Music Championship, flatpicking guitar: first prize 2015
Florida Old-Time Music Championship, fingerpicking guitar: second prize 2015
Madison Shape-Note Singers 2011-2014
UW-Madison Collegium Musicum, viola da gamba and lute 2008-2009
Santa Fe Bluegrass Festival, flatpicking guitar: first prize 2007
Edgewood Bluegrass Festival (Edgewood, NM), guitar: runner-up 2007
Santa Fe Bluegrass Festival, misc. instruments (fingerstyle guitar): first prize 2006

"Daniel Myers: New Traditionalism", profile in *Frets* magazine   2006
University of Florida Orchestra, cello   2000-2002

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