

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

Intern 2011

Sandia National Laboratories Albuquerque, NM

Senior Member of Technical Staff 2006-2008

Publications

Undergraduate student co-authors at Rollins College are underlined

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. Villanueva, 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.

Grants and Awards

S. Sadeh, J.A. Contino, and D.S. Myers (faculty advisor). Establishing an After-School Computer Science Program at Fern Creek Elementary School. Google igniteCS, 2016. \$1100.

R. Zere, N. Chatlani, and D.S. Myers (faculty advisor). Rollins College Student-Faculty Collaborative Scholarship Program, 2016. \$13000.

D.S. Myers. Implementing an Adaptive Tutorial System for Coding Literacy Education. Mindlin Foundation, 2015. \$2500.

S.R. Shrestha, N. Chatlani, and D.S. Myers (faculty advisor) Rollins College Student-Faculty Collaborative Scholarship Program, 2015. \$12650.

SIGMETRICS/Performance Travel Grant, 2012. \$1000.

University of Wisconsin Alumni Scholarship, 2008.

Tau Beta Pi National Engineering Honor Society, 2001.

Teaching

Rollins College

Artificial Intelligence	2017
System Software Principles	2017, 2016
Introduction to Computer Systems	2016, 2015
Creating the Future (general education capstone) [†]	2016
Computer Security	2016
Starting a Tech Company [†]	2015
Problem Solving II with Java (Data Structures and Algorithms)	2015, 2014
Advanced Computer Systems	2014
Computer Networks	2014

[†] General education course

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)
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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
Algorithms for Course Timetabling Problems	Honors Thesis
Genetic Algorithm Optimization of Monopoly	Student-Faculty Research
Joseph Young	2015
Intelligent Agents in Game Development	Honors Thesis

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 <i>The Computer Journal</i>	2012-2014
Judge, Capital Science and Engineering Fair	2012
Reviewer for <i>IEEE Trans. on Signal Processing</i>	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
University of Florida Orchestra, cello

2006
2000-2002