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

Professional Experience

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

Google Madison, WI
Storage Performance Research Internship 2011

Sandia National Laboratories Albuquerque, NM
Senior Member of Technical Staff 2007-2008
Member of Technical Staff 2006-2007

Publications

Undergraduate student co-authors at Rollins College are underlined.

N. Chatlani, D.S. Myers, J. Rickman, J. Yellen, and R. Zere. "Design of a Multi-Objective Decision Support System for a Course Timetabling Problem". *In preparation.*

D.S. Myers and N. Chatlani. "Implementing an Adaptive Tutorial System for Coding Literacy Education". To appear in *Journal of Computing Sciences in Colleges*, 2017.

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.

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". Abstract 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. "Towards an Optimal Strategy For Monopoly: The MEGA Edition Using Genetic Algorithms and Simulations". In *Academy of Economics and Finance, Papers and Proceedings*. 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 and Media

Interviewed by Rob Humphreys for an article on the igniteCS mentoring program at Fern Creek Elementary School. "Igniting Kids' Imagination Through Computer Science". *Rollins 360*. 3/2017.

"Length Distributions and Dynamic Buffer Sizing in Multi-Server Queueing Systems". Southeast Decision Sciences 2017. Charleston, SC, 2/2017

"Using Machine Learning to Understand Storage Performance". Invited research seminar. Florida Southern College. 2/2017.

"Designing an Automated Course Scheduling System". Rollins College Faculty Day of Scholarship. Winter Park, FL, 1/2017.

"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.

With S.R. Shrestha and R.A. Lewin. "Optimal Strategy for Monopoly: The Mega Edition Using Genetic Algorithms and Simulations". Academy of Economics and Finance, 42nd Annual Meeting. Pensacola, Fl, 2/2016.

"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

Recognition for excellence in faculty-student advising, 2016-2017.

C. Cheng and D.S. Myers (faculty advisor). "Investigating the Qualities of Hit Songs Using Data Analytics". Rollins College Student-Faculty Collaborative Scholarship Program, 2017. $6500.

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.

Recognition for excellence in faculty-student advising, 2015-2016.

R. Zere, N. Chatlani, and D.S. Myers (faculty advisor). "Designing and Implementing a Decision Support System for Course Timetabling". 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 and D.S. Myers (faculty advisor). "Genetic Algorithm Optimization of Monopoly: the MEGA Edition". Rollins College Student-Faculty Collaborative Scholarship Program, 2015. $6325.

N. Chatlani, and D.S. Myers (faculty advisor). "Adaptive Tutorial Systems for Coding Literacy Education". Rollins College Student-Faculty Collaborative Scholarship Program, 2015. $6325.

SIGMETRICS/Performance Travel Grant, 2012. $1000.

University of Wisconsin Alumni Scholarship, 2008.

Phi Kappa Phi, 2003

Tau Beta Pi National Engineering Honor Society, 2001.

Teaching

Rollins College

Introduction to Computer Systems	2017, 2016, 2015
Digital Media, the Web, and Coding†	2017
Artificial Intelligence	2017
System Software Principles	2017, 2016
Creating the Future†	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	2014, 2013
Computer Systems Modeling Fundamentals	2012
Linear Programming (Teaching Assistant)	2009

Wisconsin Center for Academically Talented Youth (WCATY)

Intro to Computer Science	2009-2013 (five summers)

Student Theses and Research Projects

Carmen Cheng	2017
Investigating the Qualities of Hit Songs Using Data Analytics	Student-Faculty Research
Shree Raj Shrestha	2015-2017
Algorithms for Course Timetabling Problems	Honors Thesis
Genetic Algorithm Optimization of Monopoly: the MEGA Edition	Student-Faculty Research
Neeraj Chatlani	2015-2017
Generating Pedagogically Useful Random Programs	Honors Thesis
User-Centered Design of a Course-Timetabling Interface	Student-Faculty Research
Adaptive Tutorial Systems for Coding Literacy Education	Student-Faculty Research
Ruzgar Zere	2016
Comparing Exact and Heuristic Course-Timetabling Algorithms	Student-Faculty Research
Joseph Young	2015
Intelligent Agents in Game Development	Honors Thesis

Professional Service and Development

Faculty advisor, igniteCS after-school mentoring program	2017-Present
Mayor of the Innovate, Create, Elevate (ICE) general education neighborhood	2016-Present
Social innovation and entrepreneurship steering committee	2016-Present
Reviewer for *Expert Systems with Applications*	2017
Search committee for visiting assistant professor of computer science	2017
Faculty member, Ashoka U Changemaker Campus renewal initiative	2016
Finance and Services Committee	2015-2016

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, Madison, WI	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