Samuel Burer

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EXPERIENCE

2016-07 – present	George Daly Professor, Department of Business Analytics, University of Iowa ¹		
	Faculty Director, Full-Time Business Analytics Graduate Program (2018–present)		
	Faculty Director, Part-Time Business Analytics Graduate Program (2014–2019)		
	Faculty, Applied Mathematical and Computational Sciences (2004–present)		
2012-07 – 2016-07	Professor , Department of Management Sciences, University of Iowa Henry B. Tippie Research Fellow (2012–2016)		
2007-07 - 2012-06	Associate Professor , Department of Management Sciences, University of Iowa Martha and Dennis Hesse Faculty Fellow (2004–12)		
2009-04 - 2009-05	Visiting Associate Professor, Department of CS and Systems, Sapienza Università di Roma		
2007-01 - 2007-05	Visiting Assistant Professor, Tepper School of Business, Carnegie Mellon University		
2001-08 - 2007-06	Assistant Professor, Department of Management Sciences, University of Iowa		

EDUCATION

Georgia Institute of Technology

- Ph.D., Algorithms, Combinatorics, and Optimization, August 2001
- New Algorithmic Approaches for Semidefinite Programming with Applications to Combinatorial Optimization, advised by R.D.C. Monteiro

University of Georgia

- B.S., Mathematics, June 1997
- First Honor Graduate, Summa Cum Laude, With Highest Honors

RESEARCH AND TEACHING INTERESTS

- Analytics, operations research, management sciences
- Discrete and continuous optimization
- Convex, copositive, semidefinite, and nonlinear optimization
- Decision making and optimization under uncertainty

GRANTS

• National Science Foundation Grant for CAREER: Computation, Theory, and Applications for Nonconvex Quadratic and Conic Optimization, \$400,000, 2006–12

¹The department name changed from *Management Sciences* to *Business Analytics* in April 2019.

- National Science Foundation Grant for *Collaborative Research: Theory and Implementation of Semidefinite Programming and Its Application to Combinatorial Optimization*, \$255,818, 2000–05
- New Technology in the Learning Environment Grant, University of Iowa, \$1,500, 2004
- Old Gold Fellowships, University of Iowa, \$12,000, 2002–03

JOURNAL PUBLICATIONS (listed in reverse chronological order by appearance of manuscript)

- [J01] Exact Semidefinite Formulations for a Class of (Random and Non-Random) Nonconvex Quadratic Programs, with Y. Ye, February 2018, revised November 2018, published "Online First" in *Mathematical Programming Series A*. DOI 10.1007/s10107-019-01367-2.
- [J02] Three Methods for Robust Grading, with V. Piccialli, European Journal on Operational Research, 272, 364–371, 2019. DOI 10.1016/j.ejor.2018.06.019.
- [J03] A Data-Driven Distributionally Robust Bound on the Expected Optimal Value of Uncertain Mixed 0-1 Linear Programming, with G. Xu, *Computational Management Science*, 15, 111–134, 2018.
- [J04] A Copositive Approach for Two-Stage Adjustable Robust Optimization with Uncertain Right-Hand Sides, with G. Xu, *Computational Optimization and Applications*, 70, 33–59, 2018. DOI 10.1007/s10589-017-9974-x.
- [J05] Quadratic Programs with Hollows, with B. Yang and K. Anstreicher, *Mathematical Programming Series A*, 170, 541–553, 2018. DOI 10.1007/s10107-017-1157-0.
- [J06] Robust Sensitivity Analysis of the Optimal Value of Linear Programming, with G. Xu, *Optimization Methods and Software*, 32(6):1187-1205, 2017.
- [J07] Nearly Efficient Tuitions and Subsidies in American Public Higher Education, with G. Fethke, *Economics of Education Review*, 55, 182—197, 2016. DOI 10.1016/j.econedurev.2016.09.003.
- [J08] A Gentle, Geometric Introduction to Copositive Optimization, *Mathematical Programming Series B*, 151(1), 89–116, 2015. DOI 10.1007/s10107-015-0888-z.
- [J09] A Branch-and-Bound Algorithm for Instrumental Variable Quantile Regression, with G. Xu, *Mathematical Programming Computation*, 9, 471–497, 2017. DOI 10.1007/s12532-017-0117-2, software DOI 10.5281/zen-odo.224444.
- [J10] How to Convexify the Intersection of a Second Order Cone and a Nonconvex Quadratic, with F. Kılınç-Karzan, *Mathematical Programming Series A*, 162, 393–429, 2017.
- [J11] A Two-Variable Analysis of the Two-Trust-Region Subproblem, with B. Yang, SIAM Journal on Optimization, 26(1), 661–680, 2016.
- [J12] Faster, but Weaker, Relaxations for Quadratically Constrained Quadratic Programs, with S. Kim and M. Kojima, *Computational Optimization and Applications*, 59(1), 27–45, 2014.
- [J13] The Trust Region Subproblem with Non-Intersecting Linear Constraints, with B. Yang, *Mathematical Programming Series A*, 149(1–2), 253–264, 2015.
- [J14] Non-Convex Mixed-Integer Nonlinear Programming: A Survey, with A. Letchford, Surveys in Operations Research and Management Science, 17, 97–106, 2012.
- [J15] A First-Order Smoothing Technique for a Class of Large-Scale Linear Programs, with J. Chen, SIAM Journal on Optimization, 24(2), 598–620, 2014.
- [J16] Robust Rankings for College Football, *Journal of Quantitative Analysis in Sports*, 8(2), 2012, DOI 10.1515/1559-0410.1405.
- [J17] Unbounded Convex Sets for Non-Convex Mixed-Integer Quadratic Programming, with A. Letchford, Mathe-

- matical Programming Series A, 143(1-2), 231-256, 2014.
- [J18] Representing Quadratically Constrained Quadratic Programs As Generalized Copositive Programs, with H. Dong, *Operations Research Letters*, 40(3), 203-206, 2012.
- [J19] Second-Order Cone Constraints for Extended Trust-Region Subproblems, with K. Anstreicher, SIAM Journal on Optimization, 23(1), 432-451, 2013.
- [J20] Globally Solving Nonconvex Quadratic Programming Problems via Completely Positive Programming, with J. Chen, *Mathematical Programming Computation*, 4(1), 33-52, 2012.
- [J21] Separation and Relaxation for Cones of Quadratic Forms, with H. Dong, *Mathematical Programming Series A*, 137(1), 343-370, 2013.
- [J22] Modifying Soyster's Model for the Traveling Salesman Problem with Interval Travel Times, with N. Cho and A.M. Campbell, *Far East Journal of Applied Mathematics*, 86(2), 117–144, 2014.
- [J23] Optimizing a Polyhedral-Semidefinite Relaxation of Completely Positive Programs, *Mathematical Programming Computation*, 2(1), 1-19, 2010.
- [J24] A Semidefinite Approach to the Hypergraph Minimum Bisection Problem, with C. Choi, *Optimization*, 60(3):413-427, 2011.
- [J25] On Non-Convex Quadratic Programming with Box Constraints, with A.N. Letchford, SIAM Journal on Optimization, 20(2):1073-1089, 2009.
- [J26] The Difference Between 5x5 Doubly Nonnegative and Completely Positive Matrices, with K. Anstreicher and M. Dür, *Linear Algebra and Its Applications*, 431:1539-1552, 2009.
- [J27] A p-Cone Sequential Relaxation Procedure for 0-1 Integer Programs, with J. Chen, *Optimization Methods and Software*, 24(4):523-548, 2009.
- [J28] Relaxing the Optimality Conditions of Box QP, with J. Chen, *Computational Optimization and Applications*, 48:653-673, 2011.
- [J29] Computable Representations for Convex Hulls of Low-Dimensional Quadratic Forms, with K. Anstreicher, *Mathematical Programming Series B*, 124(1-2):33-43, 2010.
- [J30] Globally Solving Box-Constrained Nonconvex Quadratic Programs with Semidefinite-Based Finite Branch-and-Bound, with D. Vandenbussche, *Computational Optimization and Applications*, 43(2):181-195, 2009.
- [J31] On the Copositive Representation of Binary and Continuous Nonconvex Quadratic Programs, *Mathematical Programming Series A*, 120(2):479-495, 2009.
- [J32] On Handling Free Variables in Interior-Point Methods for Conic Linear Optimization, with M.F. Anjos, *SIAM Journal on Optimization*, 18(4):1310-1325, 2007.
- [J33] Ensemble Pruning via Semi-definite Programming, with Y. Zhang and W.N. Street, *Journal of Machine Learning Research*, 7:1315-1338, 2006.
- [J34] A Finite Branch-and-Bound Algorithm for Nonconvex Quadratic Programming via Semidefinite Relaxations, with D. Vandenbussche, *Mathematical Programming Series A*, 113(2):259-282, 2008.
- [J35] Coordinating the Supply Chain in the Agricultural Seed Industry, with P.C. Jones and T. Lowe, *European Journal of Operational Research*, 185:354-377, 2008.
- [J36] Solving Maximum-Entropy Sampling Problems Using Factored Masks, with J. Lee, *Mathematical Programming Series B*, 109:263-281, 2007.
- [J37] Newsyendor Games: Convex Optimization of Centralized Inventory Operations, with M. Dror, TOP, 20(3):707-

- 728, 2012.
- [J38] Computational Enhancements in Low-Rank Semidefinite Programming, with C. Choi, *Optimization Methods and Software*, 21(3):493-512, 2006.
- [J39] Solving Lift-and-Project Relaxations of Binary Integer Programs, with D. Vandenbussche, *SIAM Journal on Optimization*, 16(3):726-750, 2006.
- [J40] Local Minima and Convergence in Low-Rank Semidefinite Programming, with R.D.C. Monteiro, *Mathematical Programming Series A*, 103:427-444, 2005.
- [J41] D.C. Versus Copositive Bounds for Standard QP, with K. Anstreicher, *Journal of Global Optimization*, 33:299-312, 2005.
- [J42] Semidefinite Programming in the Space of Partial Positive Semidefinite Matrices, SIAM Journal on Optimization, 14:139-172, 2003.
- [J43] A Computational Study of a Gradient-Based Log-Barrier Algorithm for a Class of Large-Scale SDPs, with R.D.C. Monteiro and Y. Zhang, *Mathematical Programming Series B*, 95:359-379, 2003.
- [J44] A Nonlinear Programming Algorithm for Solving Semidefinite Programs via Low-Rank Factorization, with R.D.C. Monteiro, *Mathematical Programming Series B*, 95:329-357, 2003.
- [J45] Maximum Stable Set Formulations and Heuristics Based on Continuous Optimization, with R.D.C. Monteiro and Y. Zhang, *Mathematical Programming Series A*, 94:137-166, 2002.
- [J46] Rank-Two Relaxation Heuristics for Max-Cut and Other Binary Quadratic Programs, with R.D.C. Monteiro and Y. Zhang, SIAM Journal on Optimization, 12:503-521, 2001.
- [J47] Interior Point Algorithms for Semidefinite Programming Based on a Nonlinear Formulation, with R.D.C. Monteiro and Y. Zhang, *Computational Optimization and Applications*, 22:49-79, 2002.
- [J48] Solving a Class of Semidefinite Programs via Nonlinear Programming, with R.D.C. Monteiro and Y. Zhang, *Mathematical Programming Series A*, 93:97-122, 2002.
- [J49] A General Framework for Establishing Polynomial Convergence of Long-Step Methods for Semidefinite Programming, with R.D.C. Monteiro, *Optimization Methods and Software*, 18:1-38, 2003.
- [J50] A Projected Gradient Algorithm for Solving the Maxcut SDP Relaxation, with R.D.C. Monteiro, *Optimization Methods and Software*, 15:175-200, 2001.

REFEREED BOOK CHAPTERS (listed in reverse chronological order)

- [B01] Copositive Programming, Handbook of Semidefinite, Cone and Polynomial Optimization: Theory, Algorithms, Software and Applications, edited by M.F. Anjos and J.B. Lasserre, 201-218, 2011.
- [B02] The MILP Road to MIQCP, with A. Saxena, *IMA Volumes in Mathematics and Its Applications*, edited by J. Lee and S. Leyffer, 154:373-406, 2011.

REFEREED CONFERENCE PUBLICATIONS

[C01] Sharing Classifiers Among Ensembles from Related Problem Domains, with Y. Zhang and W.N. Street, *Proceedings of the Fifth IEEE International Conference on Data Mining (ICDM'05)*, 522-529, 2005.

PRESENTATIONS (listed in reverse chronological order)

- [P01] TBD, Ohio State University University, Columbus, OH, April 2020 (invited).
- [P02] Robust Rankings for College Football, George Washington University, Washington D.C., October 2019 (invited).
- [P03] Python or R or Both: Tools for Your Data Analytics Workflow, Practice and Experience in Advanced Research Computing, Chicago, IL, July 2019 (refereed tutorial).
- [P04] An Introduction to Semidefinite Programming for Combinatorial Optimization, Conference on Integer Programming and Combinatorial Optimization (IPCO), University of Michigan, Ann Arbor, MI, May 2019 (invited tutorial).
- [P05] Exact Semidefinite Formulations for a Class of (Random and Non-Random) Nonconvex Quadratic Programs, INFORMS, Phoenix, AZ, November 2018 (invited).
- [P06] Exact Semidefinite Formulations for a Class of (Random and Non-Random) Nonconvex Quadratic Programs, Università degli Studi di Roma "Tor Vergata," Rome, July 2018 (invited).
- [P07] Exact Semidefinite Formulations for a Class of (Random and Non-Random) Nonconvex Quadratic Programs, Twenty-Third International Symposium on Mathematical Programming, Bordeaux, France, July 2018 (invited).
- [P08] A Gentle, Geometric Introduction to Copositive Optimization, "Beyond Convexity: Emerging Challenges in Data Science" CMO-BIRS Workshop, Oaxaca, Mexico, October 2017 (invited).
- [P09] A Copositive Approach for Two-Stage Adjustable Robust Optimization with Uncertain Right-Hand Sides, SIAM Conference on Optimization, Vancouver, May 2017 (invited).
- [P10] A Copositive Approach for Two-Stage Adjustable Robust Optimization with Uncertain Right-Hand Sides, University of Texas at Austin, Austin, TX, May 2017 (invited).
- [P11] My Experience in the 2016 INFORMS Syngenta Crop Challenge, Workshop on Designing Optimal Genetic Improvement and Agronomic Systems, Iowa State University, Ames, Iowa, November 2016 (invited).
- [P12] A Copositive Approach for Two-Stage Adjustable Robust Optimization with Uncertain Right-Hand Sides, Universität Klagenfurt, Klagenfurt, Austria, November 2016 (invited).
- [P13] A Copositive Approach for Two-Stage Adjustable Robust Optimization with Uncertain Right-Hand Sides, Georgia Tech, Atlanta, GA, October 2016 (invited).
- [P14] Robust Sensitivity Analysis, University of Minnesota, Minnesota, MN, May 2016 (invited).
- [P15] Balancing Weather Risk and Crop Yield for Soybean Variety Selection, INFORMS Conference on Business Analytics and Operations Research, Orlando, FL, April 2016 (invited).
- [P16] How to Convexify the Intersection of a Second Order Cone and a Nonconvex Quadratic, INFORMS, Philadelphia, PA, October 2015 (invited).
- [P17] A Gentle, Geometric Introduction to Copositive Optimization, Twenty-Second International Symposium on Mathematical Programming, Pittsburgh, July 2015 (invited semi-plenary).
- [P18] Robust Sensitivity Analysis for Linear Programming, First Pacific Optimization Conference, Wuxi, China, November 2014 (invited).
- [P19] A Gentle, Geometric Introduction to Copositive Optimization, Workshop on Emerging Topics in Conic and Discrete Optimization, Engineering Systems and Design, Singapore University of Technology and Design, Singapore, October 2014 (invited tutorial).
- [P20] Robust Rankings for American College Football, Università degli Studi di Roma "Tor Vergata," Rome, May

- 2014 (invited).
- [P21] Interior-Point Methods for Linear Programming, Università degli Studi di Roma "Tor Vergata," Rome, May 2014 (invited).
- [P22] Copositive Optimization, Third University of Florida SIAM Gators Conference, Gainesville, FL, March 2014 (invited faculty speaker).
- [P23] A Two-Variable Analysis of the Two-Trust-Region Subproblem, Eighteenth Combinatorial Optimization Worksthop, CNRS Centre Paul Langevin, Aussois, France, January 2014 (invited).
- [P24] The Trust Region Subproblem with Non-Intersecting Linear Constraints, INFORMS, Minneapolis, MN, October 2013 (invited).
- [P25] Robust Rankings for College Football, INFORMS, Minneapolis, MN, October 2013 (invited).
- [P26] Robust Rankings for American College Football, Tilburg University, Tilburg, Netherlands, July 2013 (invited).
- [P27] Copositive Optimization, Fourth International Conference on Continuous Optimization (ICCOPT-IV), Lisbon, Portugal, July 2013 (invited semi-plenary).
- [P28] Unbounded Convex Sets for Non-Convex Mixed-Integer Quadratic Programming, INFORMS Computing Society Conference, Santa Fe, NM, January 2013 (invited).
- [P29] Robust Rankings for College Football, Department of Mathematics, Grinnell College, December 2012 (invited).
- [P30] Robust Rankings for American College Football, Mixed Integer Programming (MIP), Davis, CA, July 2012 (invited).
- [P31] Uncertainty and Robustness: Two Optimization Models, Fuqua School of Business, Duke University, March 2012.
- [P32] Separation and Relaxation for Completely Positive Matrices, Tenth SIAM Conference on Optimization, Darmstadt, Germany, May 2011 (invited).
- [P33] Cuts for Nonconvex Quadratic Programming, Optimization Days, Montreal, May 2011 (invited).
- [P34] Cuts for Nonconvex Quadratic Programming, IBM T. J. Watson Research Center, Yorktown Heights, NY, March 2011 (invited).
- [P35] Separating Cuts for Quadratic Programs, INFORMS, Austin, TX, November 2010 (invited).
- [P36] New Approximations for Copositive Matrices, INFORMS, Austin, TX, November 2010 (invited).
- [P37] Nonconvex Quadratic Programming: Models and Algorithms, West Coast Optimization Meeting, University of Washington, Seattle, WA, May 2010 (invited).
- [P38] Nonconvex Quadratic Programming with Box Constraints, Operations Research Seminar, Carnegie Mellon University, Pittsburgh, PA, April 2010 (invited).
- [P39] Nonconvex Quadratic Programming: Models and Algorithms, Department of Industrial and Systems Engineering, University of Wisconsin-Madison, Madison, WI, September 2009 (invited).
- [P40] Optimizing a Polyhedral-Semidefinite Relaxation of Completely Positive Programs, Twentieth International Symposium on Mathematical Programming, Chicago, August 2009 (invited).
- [P41] Optimizing a Polyhedral-Semidefinite Relaxation of Completely Positive Programs, Università di Firenze, Florence, May 2009 (invited).
- [P42] Short Course on Semidefinite Programming, Sapienza Università di Roma, Rome, May 2009 (invited).
- [P43] Optimizing a Polyhedral-Semidefinite Relaxation of Completely Positive Programs, OptimA Workshop, University of Illinois Urbana-Champaign, March 2009 (invited).

- [P44] New Results on Non-Convex Quadratic Programming, Chinese University of Hong Kong, November 2008 (invited).
- [P45] Convex Hulls of Low-dimensional Quadratic Forms over Polytopes, INFORMS, Washington D.C., October 2008 (invited).
- [P46] On the Copositive Representation of Binary and Continuous Nonconvex Quadratic Programs, Ninth SIAM Conference on Optimization, Boston, May 2008 (invited).
- [P47] Representing NP-Hard Problems as Convex Programs, Northwestern University, Evanston, November 2007 (invited).
- [P48] On the Copositive Representation of Binary and Continuous Nonconvex Quadratic Programs, INFORMS, Seattle, November 2007 (invited).
- [P49] Representing NP-Hard Problems as Convex Programs, Second International Conference on Continuous Optimization (ICCOPT-II), McMaster University, Hamilton, Ontario, August 2007 (invited).
- [P50] An Introduction to Semidefinite Programming and Its Applications, INFORMS International, Puerto Rico, July 2007 (invited tutorial).
- [P51] Representing NP-Hard Problems as Convex Programs, Tepper School of Business, Carnegie Mellon University, Pittsburgh, March 2007 (invited).
- [P52] Representing NP-Hard Problems as Convex Programs, Department of Industrial Engineering, University of Pittsburgh, February 2007 (invited).
- [P53] Handling Free Variables in Conic Optimization with Application to Moment Relaxations, Nineteenth International Symposium on Mathematical Programming, Rio de Janeiro, August 2006 (invited).
- [P54] A Finite Branch-and-Bound Algorithm for Nonconvex Quadratic Programming via Semidefinite Programming, 21st European Conference on Operational Research, Iceland, July 2006 (invited).
- [P55] A Finite Branch-and-Bound Algorithm for Nonconvex Quadratic Programming via Semidefinite Programming, Department of Mathematics, University of Washington, February 2006 (invited).
- [P56] A Finite Branch-and-Bound Algorithm for Nonconvex Quadratic Programming via Semidefinite Programming, Department of Mathematics, North Carolina State University, February 2006 (invited).
- [P57] A Finite Branch-and-Bound Algorithm for Nonconvex Quadratic Programming via Semidefinite Programming, Workshop on Semidefinite Programming and Its Applications, National University of Singapore, January 2006 (invited).
- [P58] A Finite Branch-and-Bound Algorithm for Nonconvex Quadratic Programming via Semidefinite Programming, INFORMS, San Francisco, November 2005 (invited).
- [P59] The Low-Rank Algorithm for Large-Scale Semidefinite Programming, University of Waterloo, Waterloo, October 2005 (invited).
- [P60] Solving Lift-and-Project Relaxations of Binary Integer Programs, University of Michigan, Ann Arbor, September 2005 (invited).
- [P61] Solving Lift-and-Project Relaxations of Binary Integer Programs, Tepper School of Business, Carnegie Mellon University, Pittsburgh, February 2005 (invited).
- [P62] Solving Lift-and-Project Relaxations of Binary Integer Programs, Workshop on Integer Programming and Continuous Optimization, Chemnitz University of Technology, Germany, November 2004 (invited).
- [P63] Computational Enhancements in Low-Rank Semidefinite Programming, INFORMS, Denver, October 2004 (invited).

- [P64] Computational Enhancements in Low-Rank Semidefinite Programming, First International Conference on Continuous Optimization (ICCOPT-I), Rensselaer Polytechnic Institute, Troy, August 2004 (invited).
- [P65] Maximum Stable Set Formulations and Heuristics Based on Continuous Optimization, SIAM Conference on Discrete Mathematics, Nashville, June 2004 (invited).
- [P66] Local Minima and Convergence in Low-Rank Semidefinite Programming, Workshop on Large Scale Nonlinear and Semidefinite Programming, University of Waterloo, Waterloo, May 2004 (invited).
- [P67] Solving Semidefinite Programs via Nonlinear Programming, University of Maryland, Baltimore County, Baltimore, November 2003 (invited).
- [P68] Local Minima and Convergence in Low-Rank Semidefinite Programming, INFORMS, Atlanta, October 2003 (invited).
- [P69] Semidefinite Programming in the Space of Partial Positive Semidefinite Matrices, Eighteenth International Symposium on Mathematical Programming, Copenhagen, August 2003 (invited).
- [P70] Semidefinite Programming in the Space of Partial Positive Semidefinite Matrices, INFORMS, San Jose, November 2002 (invited).
- [P71] Computational Experience with a Gradient-Based Algorithm for Semidefinite Programming, Seventh SIAM Conference on Optimization, Toronto, May 2002 (invited).
- [P72] Rank-Two Semidefinite Relaxation Heuristics for Max-Cut and Other Binary Quadratic Programs, Seventh SIAM Conference on Optimization, Toronto, May 2002 (invited).
- [P73] A Nonlinear Programming Algorithm for Solving Semidefinite Programs via Low-rank Factorization, Seventh SIAM Conference on Optimization, Toronto, May 2002 (invited).
- [P74] Solving Semidefinite Programs via Nonlinear Programming, Northwestern University, Evanston, April 2002 (invited).
- [P75] The Maximum Stable Set Problem: New Approaches via Continuous Optimization, McMaster University, Hamilton, March 2002 (invited).
- [P76] Rank-Two Semidefinite Relaxation Heuristics for Max-Cut and Other Binary Quadratic Programs, INFORMS, Miami, November 2001 (invited).
- [P77] Computing the Lovasz Theta Number of a Graph, INFORMS, Miami, November 2001 (invited).
- [P78] Maximum Stable Set Formulations and Heuristics Based on Continuous Optimization, Novel Approaches to Hard Discrete Optimization, University of Waterloo, Waterloo, April 2001 (contributed).
- [P79] Rank-Two Relaxation Heuristics for Maxcut, Seventh U.S.-Mexico Workshop in Numerical Analysis, Mérida, Mexico, January 2001 (contributed).
- [P80] A Nonlinear Programming Algorithm for Solving Semidefinite Programs via Low-Rank Factorization, IN-FORMS, San Antonio, November 2000 (invited).
- [P81] Solving Semidefinite Programs via Nonlinear Programming, INFORMS, San Antonio, November 2000 (invited).
- [P82] A Nonlinear Programming Algorithm for Solving Semidefinite Programs via Low-Rank Factorization, DI-MACS Seventh Implementation Challenge, Rutgers, November 2000 (invited).
- [P83] A Nonlinear Programming Algorithm for Solving Semidefinite Programs via Low-Rank Factorization, Seventeenth International Symposium on Mathematical Programming, Atlanta, August 2000 (invited).
- [P84] Solving Semidefinite Programs via Nonlinear Programming: Transformations, Derivatives and Computational Results, Tokyo Institute of Technology, Tokyo, June 2000 (invited).

- [P85] A General Framework for Establishing Polynomial Convergence of Long-Step Methods for Semidefinite Programming, INFORMS, Salt Lake City, May 2000 (invited).
- [P86] Solving Semidefinite Programs via Nonlinear Programming: Transformations, Derivatives and Computational Results, INFORMS, Salt Lake City, May 2000 (invited).
- [P87] Solving Semidefinite Programs via Nonlinear Programming: Transformations, Derivatives and Computational Results, INFORMS, Philadelphia, November 1999 (invited).
- [P88] A General Framework for Establishing Polynomial Convergence of Long-Step Methods for Semidefinite Programming, Sixth SIAM Conference on Optimization, Atlanta, May 1999 (invited).

SOFTWARE

- QuadProgBB version 20120229, proposed and developed in publication [J09] (available from personal webpage)
- OptDNN, proposed and developed in publications [J12] and [J20] (available from personal webpage)
- *SDPLR 1.03-beta*, proposed and developed in publications [J27], [J29], [J33], and [J39] (available from personal webpage and over the Web at www-neos.mcs.anl.gov)
- Max-AO, proposed in publication [J35] (available on GitHub)
- CirCut, proposed in publication [J36] (available from coauthor)

COURSE DESIGN AND DEVELOPMENT

- Online Data Programming in R (Iowa MSCI:6060), Summer 2019
- Business Analytics for Pharmacists (pilot module for the Iowa Pharmacy Management Track), Spring 2018
- Data and Decisions for Doctors (module within the Iowa Healthcare Delivery Science and Management Track),
 Fall 2017
- Applied Optimization (Iowa MSCI:6130), Spring 2017
- Data Programming in R (Iowa MSCI:6060), Spring 2015
- Optimization and Simulation Modeling (Iowa MSCI:3800), Fall 2013
- Seminar on Semidefinite Programming (Carnegie Mellon 47-837), Spring 2007
- Linear Programming (Iowa 06K:286/MSCI:6600), Fall 2004

AWARDS AND HONORS

- Core Faculty Member of the Year, University of Iowa MBA, 2016 & 2017
- Innovations in Teaching Award for *Data Programming in R*, University of Iowa Tippie College of Business, 2017
- Third Place (out of 36 international teams), INFORMS Syngenta Crop Challenge, sponsored by Syngenta and the INFORMS Analytics Society, with B. Shetty and L. Tong, 2016
- Top 5 Most Downloaded, Surveys in Operations Research and Management Science journal, 2014
- Strategic Innovation Faculty Member of the Year, University of Iowa MBA, 2013
- Certificate of Excellence in Reviewing, Operations Research Letters, 2013
- Meritorious Service Award for Associate Editors, *Operations Research*, 2012
- G.R.E.A.T. Faculty Award (First Year), Des Moines Executive MBA Class of 2012, April 2012
- Dean's Teaching Excellence Recognition, Fall 2005, Fall 2006, Fall 2011
- Dean's Teaching Award in Management Sciences, 2011
- Computational Optimization and Applications Best Paper Award, 2009 for the paper [J18]. Award citation has

appeared in: COAP 2009 Best Paper Award, Computational Optimization and Applications, 47:567-570, 2010

- Top 10 Most Highly Cited, Optimization Methods and Software journal, 2000-2008
- Honorable Mention, Young Researcher Competition, International Conference on Continuous Optimization, 2004
- New Hot Paper recognition by ISI Essential Science Indicators for the paper [J36]
- Optimization Prize for Young Researchers, Optimization Section of INFORMS, 2002
- Delta Sigma Pi Outstanding Faculty Award, University of Iowa, 2002
- Presidential Fellowship, Georgia Institute of Technology, 1997–2001
- Strahan Mathematics Award, University of Georgia, 1996
- Phi Beta Kappa member

PROFESSIONAL SERVICE AND EXTERNAL ACTIVITIES

Editorial positions

- Associate Editor, Management Sciences, 2014–present
- Associate Editor, Operations Research, 2011–present
- Associate Editor, SIAM Journal on Optimization, 2011-present
- Associate Editor, Mathematics of Operations Research, 2011–18
- Co-Editor, Optima (newsletter of the Mathematical Optimization Society), 2010–18
- Co-Editor, Discrete Optimization, special issue on Conic Discrete Optimization, 2014–2016
- Associate Editor, Operations Research Letters, 2009–14
- Associate Editor, Mathematical Programming Computation, 2008–13
- Associate Editor, Surveys in Operations Research and Management Science, 2009–13
- Associate Editor, Asia-Pacific Journal of Operational Research, 2007–10

Society positions

- Member, Board of Directors, Computing Society, INFORMS, 2014–17
- Council Member, Mathematical Optimization Society, 2012–15
- Vice-Chair for Linear Programming and Complementarity, Optimization Society, INFORMS, 2008–10
- Member, INFORMS (Institute for Operations Research and the Management Sciences)
- Member, SIAM (Society for Industrial and Applied Mathematics)
- Member, MOS (Mathematical Optimization Society)

Conference organization

- Session Organizer, International Symposium on Mathematical Programming (ISMP), Bordeaux, France, 2018
- Member, Program Committee, SIAM Conference on Optimization (SIOPT), Vancouver, 2017
- Session Organizer, International Symposium on Mathematical Programming (ISMP), Pittsburgh, 2015
- Session Organizer, Eleventh SIAM Conference on Optimization, San Diego, 2014
- Member, Program Committee, 17th Conference on Integer and Combinatorial Optimization, Bonn, 2014
- Session Organizer, INFORMS Annual Meeting, Minneapolis, MN, 2013
- Session Organizer, Fourth International Conference on Continuous Optimization (ICCOPT-IV), Lisbon, 2013
- Session Organizer, International Symposium on Mathematical Programming (ISMP), Berlin, 2012
- Session Organizer, Modeling Optimization Conference: Theory and Applications (MOPTA), Bethlehem, PA,
 2012
- Cluster Organizer, INFORMS Midwest Regional Meeting, Columbus, Ohio, 2011

- Session Organizer, Tenth SIAM Conference on Optimization, Darmstadt, Germany, 2011
- Session Organizer, INFORMS Annual Meeting, Austin, 2010
- Cluster and Session Organizer, INFORMS Annual Meeting, San Diego, 2009
- Cluster Organizer, INFORMS Annual Meeting, Washington D.C., 2008
- Session Organizer, Ninth SIAM Conference on Optimization, Boston, 2008
- Session Organizer, INFORMS Annual Meeting, Seattle, 2007
- Stream Co-Organizer and Session Chair, Second International Conference on Continuous Optimization (ICCOPT-II), McMaster University, Hamilton, Ontario, 2007
- Session Chair, EURO XXI, Reykjavik, Iceland, 2006
- Session Chair, INFORMS Annual Meeting, San Francisco, 2005
- Session Chair, INFORMS Annual Meeting, Atlanta, 2003

Referee positions, prize committees, and review panels

- INFORMS Nicholson Student Paper Prize committee (two-year terms), 2010–12, 2018–20
- Chair, University of Nebraska MS in Business Analytics Program Review, 2017
- Chair, INFORMS Optimization Society Young Researcher Prize committee, 2016
- Member, INFORMS Optimization Society Young Researcher Prize committee, 2015
- Member, Evaluation Team for ICIAM15 (International Congress on Industrial and Applied Mathematics 2015)
 Travel Awards, 2015
- Member, INFORMS Optimization Society Young Researcher Prize committee, 2013
- Member, ICCOPT 2013 Young Researcher Prize committee, 2013
- National Science Foundation review panel, 2007, 2012
- Member, INFORMS Junior Faculty Interest Group Paper Prize committee, 2012
- Member, Mixed Integer Programming Workshop Poster Award committee, 2012
- Chair, INFORMS Computing Society Paper Prize committee, 2011
- INFORMS Computing Society Paper Prize committee, 2010
- INFORMS Optimization Society Student Paper Prize committee, 2009
- Referee for Mathematical Programming, SIAM Journal on Optimization, Optimization Methods and Software, Optimization Letters, INFORMS Journal on Computing, Journal of Global Optimization, Computational Optimization and Applications, Discrete Applied Mathematics, Discrete Optimization, Mathematics of Operations Research, Operations Research, Optimization and Engineering, 4OR, Annals of Operations Research, ANZIAM Journal, Automatica, European Journal of Operational Research, Foundations of Computational Mathematics, INFORMS Transactions on Education, International Transactions on Operational Research, Journal of Computational and Graphical Statistics, RAIRO, SIAM Review, TOP

Additional training

- UI Student Judicial Procedures and Sexual Violence Investigation Strategies and Response offered by the University of Iowa, 2015
- Statement of Accomplishment with Distinction for Coursera course R Programming, 2015
- The Intersection of Title IX and Title VII in Higher Education: What Every Faculty Grievance Panel Needs to Know offered by the University of Iowa, 2014
- TILE Classroom Essentials offered by the University of Iowa, 2013
- Lean Academy Course offered by the Lean Aerospace Initiative, 2006

Consulting and external seminars

- Medcara Pharmaceuticals, 2012
- Caterpillar, 2011–12

Discover Financial Services, 2008

UNIVERSITY SERVICE

- Member, Tippie Dean's Search Committee, 2019–20
- Member, Promotion-and-Tenure Tippie College Consulting Group, 2019–21
- Member, Promotion-and-Tenure Departmental Review Committee, Department of Management Sciences, 2013–14, 2018–19
- Member, JMPEC Advisory Board, 2018–19
- Vice-Chair, Elected Faculty Council, Tippie College of Business, 2017–18
- Member, Strategic Plan Review Committee, Tippie College of Business, 2016–17
- Member, Management Sciences Faculty Recruiting Committee, 2001–02, 2005–06, 2007–08, 2016–17
- Member, Elected Faculty Council, Tippie College of Business, 2016–17
- Member, Graduate Education Task Force, Graduate College, 2015–16
- Member, Department Secretary Search Committee, Department of Managemnt Sciences, 2015
- Member, Faculty Panel, NSF CAREER Workshop, University of Iowa, 2014
- Member, Post-Tenure Review Committee, Department of Management Sciences, 2013–14
- Chair, Analytics Master's Proposal Committee, Department of Management Sciences, 2013–15
- Member, Management Sciences Graduate Committee, 2003–05, 2006–07, 2013–15
- Member, Faculty Judicial Commission, 2013–16
- Member, Internal Funding Initiatives Review, Office of the VP for Research and Economic Development, 2013–15
- Chair, Management Sciences Faculty Recruiting Committee, 2012–13
- Member, AMCS (Applied Mathematical and Computational Sciences) Executive Committee, 2012–18
- Member, Management Sciences Internal Evaluation Sub-Committee, 2008–09, 2012–13, 2015–16
- Member, Core MBA Committee, 2002–03, 2010–11, 2012–13
- Member, Collegiate and Dean Teaching Awards Committee, 2011–12, 2012–13
- Member, AMCS (Applied Mathematical and Computational Sciences) Admission Committee, 2011–12
- Member, University of Iowa Faculty Engagement Corps, 2010
- Secretary, Elected Faculty Council, Tippie College of Business, 2008–10
- Organizer, Management Sciences Seminar Series, 2001–02, 2006–07
- Executive MBA Committee, 2003–05

ADVISING, MENTORING, AND SUPERVISING

Ph.D. Advisor

Guanglin Xu Management Sciences 2017 Summer

University of Minnesota (initial)

University of North Carolina at Charlotte (current)

Boshi Yang Appl Math and Comp Sci 2015 Summer

Carnegie Mellon University (initial)

Clemson University (current)

Hongbo Dong Appl Math and Comp Sci (with K. Anstreicher) 2011 Fall

University of Wisconsin Madison (initial)

Washington State University, Facebook (current)

Jieqiu Chen	Management Sciences Argonne National Laboratory (initial)	2010 Summer				
Changhui Choi	Microsoft (current) Management Sciences University of Colorado Denver (initial) Korea Insurance Research Institute (current)	2007 Spring				
Sponsored Postdoctoral Fello	ows					
Nayoung Cho	Management Sciences (with A. Campbell)	2009 Spring – 2010 Summer				
Ph.D. Committee		1 2				
Enrico Bettiol	Université Paris 13	2019 Fall				
Areesh Mittal	University of Texas at Austin	2019 Fair 2019 Spring				
Xiaolong Kuang	Lehigh University	2017 Spring				
Silviya Valeva	Appl Math and Comp Sci	2017 Spring 2017 Spring				
Zhenzhen Yan	National University of Singapore	2017 Spring				
Santanu Bhowmick	Computer Science	2017 Spring				
Nathaniel Richmond	Appl Math and Comp Sci	2016 Fall				
Vivek Sardeshmukh	Computer Science	2016 Summer				
Fahrettin Cakir	Management Sciences	2016 Summer				
Huan Jin	Management Sciences	2016 Summer				
Alexander Vinel	Industrial Engineering	2015 Spring				
Amit Verma	Management Sciences	2014 Summer				
Alexander Michalka	Columbia University	2013 Summer				
Lian Duan	Management Sciences	2012 Summer				
Moh. Khoshneshin	Management Sciences	2012 Summer				
Gaurav Kanade	Computer Science	2011 Summer				
Nicholas Liefker	Management Sciences	2010 Summer				
Jon Van Laarhoven	Mathematics	2010 Spring				
Samid Hoda	Carnegie Mellon University	2010 Spring				
Policarpio Soberanis	Industrial Engineering	2009 Fall				
Benton McCune	Computer Science	2009 Fall				
Chih-Lin Chi	Health Informatics	2009 Summer				
Dengfeng Zhang	Management Sciences	2008 Fall				
Anureet Saxena	Carnegie Mellon University	2008 Spring				
Kaan Ataman	Management Sciences	2007 Summer				
Rajiv Raman	Computer Science	2007 Spring				
Thaddeus Sim	Management Sciences	2007 Spring				
Victoria Shimanovich	Computer Science	2006 Summer				
Yi Zhang	Management Sciences	2006 Summer				
Ph.D Qualifying / Comprehensive / Preliminary Committee						
Sara Reed	Appl Math and Comp Sci	2019 Spring				
Sadjad Anzabi Zadeh	Management Sciences	2018 Fall				
Xiexin Liu	Management Sciences	2018 Fall				
Maryam Moghaddam	Mangement Sciences	2018 Fall				
Hassan Rafique	Appl Math and Comp Sci	2018 Fall				
Michael Redmond	Management Sciences	2017 Fall				
Runchao Ma	Management Sciences	2016 Fall, 2017 Fall				

Younyang Liu Management Sciences 2016 Fall Cole Stiegler Appl Math and Comp Sci 2016 Spring Bhupesh Shetty Management Sciences 2015 Summer Santanu Bhowmick Computer Science 2015 Spring Vivek Sardeshmukh Computer Sciences 2014 Spring Preethi Isaac Management Sciences 2014 Spring Guanglin Xu Management Sciences 2014 Spring Xi Chen Management Sciences 2014 Spring Wenjun Wang Management Sciences 2014 Spring Wenjun Wang Management Sciences 2014 Spring Huan Jin Management Sciences 2014 Spring Stacy Voccia Management Sciences 2013 Spring Glong Zhang Management Sciences 2013 Spring Stacy Voccia Management Sciences 2013 Spring Glong Zhang Management Sciences 2013 Spring Huan Jin Management Sciences 2013 Spring Huan Jin Management Sciences 2012 Spring Kamal Lamsal Management Sciences 2012 Spring Chuanjic Liao Management Sciences 2012 Spring Senay Yasar Saglam Management Sciences 2012 Spring Senay Yasar Saglam Management Sciences 2011 Spring Jian Duan Management Sciences 2010 Spring Hongbo Dong Appl Math and Comp Sci 2009 Fall Gaurav Kanade Computer Sciences 2010 Spring Gaurav Kanade Computer Sciences 2008 Fall Darin Mohr Appl Math and Comp Sci 2008 Fall Justin Goodson Management Sciences 2007 Fall Jicqiu Chen Management Sciences 2006 Spring Dengfeng Zhang Management Sciences 2006 Spring Dengfeng Zhang Management Sciences 2006 Spring Depakkumar Nobida MBA 2010-111 Anonya Bagchi MBA 2013 Spring Danielle W	Visanian	ς Τ <i>i</i>	Managamant Saignaga		2016 Fall		
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Pankaj Kumar MBA 2013 Spring							
	Pankaj K	umar	MBA		2013 Spring		

Scott Marsh MBA 2012 Spring Isaac Hess MBA 2012 Spring

Graduate Mentor (Ethnic Inclusion Effort for Iowa Engineering)

James Ratliff Industrial Engineering 2011–13

Sponsored Short-Term Visitors

Anders Eltved Technical University of Denmark, Denmark 2019–20 September–January

Nicolo Gusmeroli University of Klagenfuhrt, Austria 2019 April–May Peter J.C. Dickinson University of Groningen, Netherlands 2012 March Mirjam Dür University of Groningen, Netherlands 2007 June