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Dr. Tamara G. Kolda

Curriculum Vitae

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— Research Interests

Mathematical algorithms and computational methods for data science and artificial intelligence, including linear and multilinear algebra, tensor decompositions, tensor eigenvalues, graph algorithms, randomized algorithms, machine learning, network science, numerical optimization, distributed and parallel computing

— Education

- Ph.D., Applied Mathematics, University of Maryland, College Park, 1997
- M.A., Applied Mathematics, University of Maryland, College Park, 1995
- B.S., Summa Cum Laude, Mathematics, University of Maryland Baltimore County, 1992

— Employment

- Independent Consultant (2021–), MathSci.ai, Dublin, CA
- Distinguished Member of Technical Staff (2010–2021), Sandia National Laboratories, Livermore, CA
- Principal Member of Technical Staff (2002–2010), Sandia National Laboratories, Livermore, CA
- Senior Member of Technical Staff (1999–2002), Sandia National Laboratories, Livermore, CA
- Householder Postdoctoral Fellow (1997–1999), Oak Ridge National Laboratory, Oak Ridge, TN
- Adjunct Assistant Professor (1997–1999), Dept. Computer Science, Univ. Tennessee, Knoxville, TN
- Summer Intern (Summers 1994, 1995, 1996), Center for Computing Sciences, Bowie, MD
- Summer Intern (Summers 1992, 1993), National Security Agency, Ft. Meade, MD

— Professional Association & Society Memberships

- Member, National Academy of Engineering (NAE)
- Fellow, Society for Industrial and Applied Mathematics (SIAM)
- Fellow, Association for Computing Machinery (ACM)
- Member, American Statistical Association (ASA)

— Honors and Awards

- Elected Member of the National Academy of Engineering (NAE), Feb. 2020, *for contributions to the design of scientific software, including tensor decompositions and multilinear algebra*
- Elected Fellow of the Association for Computing Machinery (ACM), Dec. 2019, *for innovations in algorithms for tensor decompositions, contributions to data science, and community leadership*
- Best Paper Prize at IEEE International Conference on Data Mining (ICDM), Nov. 2015, *for “Diamond Sampling for Approximate Maximum All-pairs Dot-product (MAD) Search”*
- Elected Fellow of the Society for Industrial and Applied Mathematics (SIAM), Mar. 2015, *for contributions to numerical algorithms and software in multi-linear algebra, optimization, and graph analysis*
- Best Research Paper Prize at SIAM International Conference on Data Mining (SDM13), May 2013, *for “Triadic Measures on Graphs: The Power of Wedge Sampling”*
- Elected Distinguished Scientist of Association for Computing Machinery (ACM), Dec. 2011

- Sandia Laboratory Directed Research & Development (LDRD) Excellence Award, Sep. 2009, *for advancing the state-of-the-art in the mathematics of tensor analysis and its applications to data mining problems of interest to the scientific and national security communities*
- Best Theoretical/Algorithms Paper Award at IEEE Intl. Conf. Data Mining (ICDM), Dec. 2008, *for “Scalable Tensor Decompositions for Multi-aspect Data Mining”*
- Distinguished Alumnus Award, Dept. Mathematics, University of Maryland, College Park, Apr. 2005
- R&D100 Award from R&D Magazine, Oct. 2004, *for Trilinos Software (Team Award)*
- 2003 Presidential Early Career Award for Scientists and Engineers (PECASE) and 2003 Department of Energy Office of Science Early Career Scientist and Engineer Award, awarded Sep. 2004, *for innovative research in algorithms and software for scientific computing, optimization, parallel computing and nonlinear solvers*
- Outstanding Poster Award at Sixth SIAM Conference on Applied Linear Algebra, 1997, *for “Overview of the Semi-Discrete Decomposition and Its Applications”*
- Alston S. Householder Postdoctoral Fellowship in Scientific Computing, Oak Ridge Natl. Lab., 1997
- National Physical Science Consortium (NPSC) Graduate Fellowship, 1992–1997
- University of Maryland Supplemental Graduate Fellowship, 1992–1995
- University of Maryland Baltimore County Class Salutatorian and Summa Cum Laude graduate, 1992
- National Science Foundation Research Experience for Undergraduates (REU) Summer Program in Matrix Analysis, College of William and Mary, Williamsburg, VA, Summer 1991
- University of Maryland Baltimore County Dean’s Scholarship, 1989, 1990, and 1991

— Consulting, Training, Visiting Positions, and Advisory Work

- Consultant, MDRC, 2023–present
- Consultant, Simula Research Laboratory, 2023–present
- Distinguished Visiting Professor (up to 6 weeks per year), Industrial Engineering & Management Science, Northwestern University, Evanston, IL, Sep. 1, 2021 – Aug. 31, 2023
 - May 2022: Introduction to Tensor Decompositions
 - May 2023: Randomized Algorithms in Linear Algebra & Scientific Computing
- Lecturer (IBM Sponsored), Mathematics of Big Data: Sketching and (Multi-) Linear Algebra, Mathematical Sciences Research Institute (MSRI), Berkeley, CA, Jul. 10–21, 2023
- J. T. Oden Visiting Professorship, University of Texas, Jan. 29–Feb. 11 and Mar. 26–Apr. 11, 2023.
- Schmidt Fellowship Selection Committee, 2021–2023
- Lecturer (MSRI sponsored), Mathematics of Big Data: Sketching and (Multi-) Linear Algebra, Mathematical Sciences Research Institute (MSRI), Berkeley, CA, Jun. 21, 2021 – Jul. 2, 2021
- External Evaluator, various positions in Scientific Computing, Uppsala University (Sweden), 2020–2023
- Advisory Panel, Modeling, Optimization, and Data Science for Commercial and Business Decision-support, ExxonMobil Upstream Integrated Solutions, May 2021
- Other private clients

— Refereed Journal Articles

51. B. W. Larsen and T. G. Kolda, Practical Leverage-Based Sampling for Low-Rank Tensor Decomposition, *SIAM J. Matrix Analysis and Applications*: 43(3):1488–1517, Aug. 2022, DOI: 10.1137/21M1441754
50. T. G. Kolda and D. Hong, Stochastic Gradients for Large-Scale Tensor Decomposition, *SIAM Journal on Mathematics of Data Science*: 2(4):1066–1095, Oct. 2020, DOI: 10.1137/19m1266265

49. R. Jin, T. G. Kolda, and R. Ward, Faster Johnson-Lindenstrauss Transforms via Kronecker Products, *Information and Inference: A Journal of the IMA*, Oct. 23, 2020, DOI: 10.1093/imaiai/iaaa028
48. S. Sherman and T. G. Kolda, Estimating Higher-Order Moments Using Symmetric Tensor Decomposition, *SIAM Journal on Matrix Analysis and Applications*: 41(3):1369–1387, Sep. 2020, DOI: 10.1137/19m1299633
47. G. Ballard, A. Klinvex, and T. G. Kolda, TuckerMPI: A Parallel C++/MPI Software Package for Large-scale Data Compression via the Tucker Tensor Decomposition, *ACM Transactions on Mathematical Software*: 46(2):13 (31 pages), Jun. 2020, DOI: 10.1145/3378445
46. D. Hong, T. G. Kolda, and J. A. Duersch, Generalized Canonical Polyadic Tensor Decomposition, *SIAM Review*: 62(1):133–163, 2020, DOI: 10.1137/18M1203626
45. E. Phipps and T. G. Kolda, Software for Sparse Tensor Decomposition on Emerging Computing Architectures, *SIAM Journal on Scientific Computing*: 41(3):C269–C290, Jun. 2019, DOI: 10.1137/18M1210691
44. A. H. Williams, T. H. Kim, F. Wang, S. Vyas, S. I. Ryu, K. V. Shenoy, M. Schnitzer, T. G. Kolda, and S. Ganguli, Unsupervised Discovery of Demixed, Low-dimensional Neural Dynamics across Multiple Timescales through Tensor Components Analysis, *Neuron*: 98(6):1099–1115, 2018, DOI: 10.1016/j.neuron.2018.05.015
43. C. Battaglini, G. Ballard, and T. G. Kolda, A Practical Randomized CP Tensor Decomposition, *SIAM Journal on Matrix Analysis and Applications*: 39(2):876–901, 2018, DOI: 10.1137/17M1112303
42. K. Chowdhary and T. G. Kolda, An Improved Hyperbolic Embedding Algorithm, *Journal of Complex Networks*: 6(3):321–341, Dec. 2017, DOI: 10.1093/comnet/cnx034
41. S. Mohammadi, D. F. Gleich, T. G. Kolda, and A. Grama, Triangular Alignment (TAME): A Tensor-based Approach for Higher-order Network Alignment, *IEEE/ACM Transactions on Computational Biology and Bioinformatics*: 14(6):1446–1458, Dec. 2017, DOI: 10.1109/tcbb.2016.2595583
40. S. Aksoy, T. G. Kolda, and A. Pinar, Measuring and Modeling Bipartite Graphs with Community Structure, *Journal of Complex Networks*: 5(4):581–603, Mar. 2017, DOI: 10.1093/comnet/cnx001
39. C. Seshadhri, A. Pinar, N. Durak, and T. G. Kolda, Directed Closure Measures for Networks with Reciprocity, *Journal of Complex Networks*: 5(1):32–47, Apr. 2016, DOI: 10.1093/comnet/cnv032
38. S. Hansen, T. Plantenga, and T. G. Kolda, Newton-Based Optimization for Kullback-Leibler Nonnegative Tensor Factorizations, *Optimization Methods and Software*: 30(5):1002–1029, Apr. 2015, DOI: 10.1080/10556788.2015.1009977
37. T. G. Kolda, Numerical Optimization for Symmetric Tensor Decomposition, *Mathematical Programming B*: 151(1):225–248, Apr. 2015, DOI: 10.1007/s10107-015-0895-0
36. T. G. Kolda and J. R. Mayo, An Adaptive Shifted Power Method for Computing Generalized Tensor Eigenpairs, *SIAM Journal on Matrix Analysis and Applications*: 35(4):1563–1581, Dec. 2014, DOI: 10.1137/140951758
35. T. G. Kolda, A. Pinar, T. Plantenga, C. Seshadhri, and C. Task, Counting Triangles in Massive Graphs with MapReduce, *SIAM Journal on Scientific Computing: Special Section on Two Themes: Planet Earth and Big Data*, 36(5):S44–S77, Oct. 2014, DOI: 10.1137/13090729X
34. M. D. Schatz, T.-M. Low, R. A. van de Geijn, and T. G. Kolda, Exploiting Symmetry in Tensors for High Performance, *SIAM Journal on Scientific Computing*: 36(5):C453–C479, Sep. 2014, DOI: 10.1137/130907215
33. T. G. Kolda, A. Pinar, T. Plantenga, and C. Seshadhri, A Scalable Generative Graph Model with Community Structure, *SIAM Journal on Scientific Computing*: 36(5):C424–C452, Sep. 2014, DOI: 10.1137/130914218
32. C. Seshadhri, A. Pinar, and T. G. Kolda, Wedge Sampling for Computing Clustering Coefficients and Triangle Counts on Large Graphs, *Statistical Analysis and Data Mining*: 7(4):294–307, Aug. 2014, DOI: 10.1002/sam.11224

31. C. Seshadhri, A. Pinar, and T. G. Kolda, An In-Depth Analysis of Stochastic Kronecker Graphs, *Journal of the ACM*: 60(2):13 (32 pages), Apr. 2013, DOI: 10.1145/2450142.2450149
30. E. C. Chi and T. G. Kolda, On Tensors, Sparsity, and Nonnegative Factorizations, *SIAM Journal on Matrix Analysis and Applications*: 33(4):1272–1299, Dec. 2012, DOI: 10.1137/110859063
29. C. Seshadhri, T. G. Kolda, and A. Pinar, Community Structure and Scale-free Collections of Erdős-Rényi Graphs, *Physical Review E*: 85(5):056109 (9 pages), May 2012, DOI: 10.1103/PhysRevE.85.056109
28. T. G. Kolda and J. R. Mayo, Shifted Power Method for Computing Tensor Eigenpairs, *SIAM Journal on Matrix Analysis and Applications*: 32(4):1095–1124, Oct. 2011, DOI: 10.1137/100801482
27. E. Acar, D. M. Dunlavy, T. G. Kolda, and M. Mørup, Scalable Tensor Factorizations for Incomplete Data, *Chemometrics and Intelligent Laboratory Systems: Special Issue on Multiway and Multiset Data Analysis*, 106(1):41–56, Mar. 2011, DOI: 10.1016/j.chemolab.2010.08.004
26. D. M. Dunlavy, T. G. Kolda, and E. Acar, Temporal Link Prediction using Matrix and Tensor Factorizations, *ACM Transactions on Knowledge Discovery from Data: Special Issue on Large-scale Data Mining: Theory and Applications*, 5(2):10 (27 pages), Feb. 2011, DOI: 10.1145/1921632.1921636
25. E. Acar, D. M. Dunlavy, and T. G. Kolda, A Scalable Optimization Approach for Fitting Canonical Tensor Decompositions, *Journal of Chemometrics*: 25(2):67–86, Feb. 2011, DOI: 10.1002/cem.1335
24. J. D. Griffin and T. G. Kolda, Nonlinearly-constrained Optimization Using Heuristic Penalty Methods and Asynchronous Parallel Generating Set Search, *Applied Mathematics Research eXpress*: 25(5):36–62, Oct. 2010, DOI: 10.1093/amrx/abq003
23. J. D. Griffin and T. G. Kolda, Asynchronous Parallel Hybrid Optimization Combining DIRECT and GSS, *Optimization Methods and Software*: 25(5):797–817, Oct. 2010, DOI: 10.1080/10556780903039893
22. T. G. Kolda and B. W. Bader, Tensor Decompositions and Applications, *SIAM Review*: 51(3):455–500, Sep. 2009, DOI: 10.1137/07070111X
21. J. D. Griffin, T. G. Kolda, and R. M. Lewis, Asynchronous Parallel Generating Set Search For Linearly-Constrained Optimization, *SIAM Journal on Scientific Computing*: 30(4):1892–1924, May 2008, DOI: 10.1137/060664161
20. K. R. Fowler, J. P. Reese, C. E. Kees, J. E. Dennis, Jr., C. T. Kelley, C. T. Miller, C. Audet, A. J. Booker, G. Couture, R. W. Darwin, M. W. Farthing, D. E. Finkel, J. M. Gablonsky, G. Gray, and T. G. Kolda, A Comparison of Derivative-Free Optimization Methods for Groundwater Supply and Hydraulic Capture Community Problems, *Advances in Water Resources*: 31(5):743–757, May 2008, DOI: 10.1016/j.advwatres.2008.01.010
19. R. Bro, E. Acar, and T. G. Kolda, Resolving the Sign Ambiguity in the Singular Value Decomposition, *Journal of Chemometrics*: 22(2):135–140, Feb. 2008, DOI: 10.1002/cem.1122
18. B. W. Bader and T. G. Kolda, Efficient MATLAB Computations with Sparse and Factored Tensors, *SIAM Journal on Scientific Computing*: 30(1):205–231, Dec. 2007, DOI: 10.1137/060676489
17. B. W. Bader and T. G. Kolda, Algorithm 862: MATLAB Tensor Classes for Fast Algorithm Prototyping, *ACM Transactions on Mathematical Software*: 32(4):635–653, Dec. 2006, DOI: 10.1145/1186785.1186794
16. T. G. Kolda, R. M. Lewis, and V. Torczon, Stationarity Results for Generating Set Search for Linearly Constrained Optimization, *SIAM Journal on Optimization*: 17(4):943–968, Nov. 2006, DOI: 10.1137/S1052623403433638
15. G. A. Gray and T. G. Kolda, Algorithm 856: APPSPACK 4.0: Asynchronous Parallel Pattern Search for Derivative-Free Optimization, *ACM Transactions on Mathematical Software*: 32(3):485–507, Sep. 2006, DOI: 10.1145/1163641.1163647
14. T. G. Kolda, Revisiting Asynchronous Parallel Pattern Search for Nonlinear Optimization, *SIAM Journal on Optimization*: 16(2):563–586, Dec. 2005, DOI: 10.1137/040603589

13. M. A. Heroux, R. A. Bartlett, V. E. Howle, R. J. Hoekstra, J. J. Hu, T. G. Kolda, et al., An Overview of the Trilinos Project, *ACM Transactions on Mathematical Software*: 31(3):397–423, Sep. 2005, DOI: 10.1145/1089014.1089021
12. G. A. Gray, T. G. Kolda, K. L. Sale, and M. M. Young, Optimizing an Empirical Scoring Function for Transmembrane Protein Structure Determination, *INFORMS Journal on Computing: Special Issue on Computational Molecular Biology/Bioinformatics*, 16(4):406–418, 2004, DOI: 10.1287/ijoc.1040.0102
11. T. G. Kolda and V. Torczon, On the Convergence of Asynchronous Parallel Pattern Search, *SIAM Journal on Optimization*: 14(4):939–964, May 2004, DOI: 10.1137/S1052623401398107
10. T. G. Kolda, R. M. Lewis, and V. Torczon, Optimization by Direct Search: New Perspectives on Some Classical and Modern Methods, *SIAM Review*: 45(3):385–482, Aug. 2003, DOI: 10.1137/S003614450242889
9. T. G. Kolda, A Counterexample to the Possibility of an Extension of the Eckart-Young Low-rank Approximation Theorem for the Orthogonal Rank Tensor Decomposition, *SIAM Journal on Matrix Analysis and Applications*: 24(3):762–767, Jan. 2003, DOI: 10.1137/S0895479801394465
8. T. G. Kolda, Orthogonal Tensor Decompositions, *SIAM Journal on Matrix Analysis and Applications*: 23(1):243–255, Jul. 2001, DOI: 10.1137/S0895479800368354
7. P. D. Hough, T. G. Kolda, and V. J. Torczon, Asynchronous Parallel Pattern Search for Nonlinear Optimization, *SIAM Journal on Scientific Computing*: 23(1):134–156, Jun. 2001, DOI: 10.1137/S1064827599365823
6. J. M. Conroy, T. G. Kolda, D. P. O’Leary, and T. J. O’Leary, Chromosome Identification Using Hidden Markov Models: Comparison with Neural Networks, Singular Value Decomposition, Principal Components Analysis, and Fisher Discriminant Analysis, *Laboratory Investigation*: 80(11):1629–1641, Nov. 2000, DOI: 10.1038/labinvest.3780173
5. B. Hendrickson and T. G. Kolda, Graph Partitioning Models for Parallel Computing, *Parallel Computing*: 26(12):1519–1534, Nov. 2000, DOI: 10.1016/S0167-8191(00)00048-X
4. T. G. Kolda and D. P. O’Leary, Algorithm 805: Computation and Uses of the Semidiscrete Matrix Decomposition, *ACM Transactions on Mathematical Software*: 26(3):415–435, Sep. 2000, DOI: 10.1145/358407.358424
3. B. Hendrickson and T. G. Kolda, Partitioning Rectangular and Structurally Unsymmetric Sparse Matrices for Parallel Processing, *SIAM Journal on Scientific Computing*: 21(6):2048–2072, May 2000, DOI: 10.1137/S1064827598341475
2. T. G. Kolda, D. P. O’Leary, and L. Nazareth, BFGS with Update Skipping and Varying Memory, *SIAM Journal on Optimization*: 8(4):1060–1083, Nov. 1998, DOI: 10.1137/S1052623496306450
1. T. G. Kolda and D. P. O’Leary, A Semidiscrete Matrix Decomposition for Latent Semantic Indexing Information Retrieval, *ACM Transactions on Information Systems*: 16(4):322–346, Oct. 1998, DOI: 10.1145/291128.291131

— Refereed Conference and Workshop Proceedings

24. E. T. Phipps, N. T. Johnson, and T. G. Kolda, Streaming Generalized Canonical Polyadic Tensor Decompositions, in *Proceedings of Platform for Advanced Scientific Computing (PASC’23) Conference*, ACM, Jun. 23, 2023, DOI: 10.1145/3592979.3593405
23. W. Austin, G. Ballard, and T. G. Kolda, Parallel Tensor Compression for Large-Scale Scientific Data, in *Proceedings of the 30th IEEE International Parallel and Distributed Processing Symposium (IPDPS’16)* (Chicago, IL, May 23–27, 2016), May 2016, pp. 912–922, DOI: 10.1109/IPDPS.2016.67
22. G. Ballard, A. Pinar, T. G. Kolda, and C. Seshadri, Diamond Sampling for Approximate Maximum All-pairs Dot-product (MAD) Search, in *Proceedings of the 2015 IEEE International Conference on Data Mining (ICDM 2015)* (Atlantic City, NJ, Nov. 14–17, 2015), Nov. 2015, pp. 11–20, DOI: 10.1109/ICDM.2015.46

21. C. Klymko, D. F. Gleich, and T. G. Kolda, Using Triangles to Improve Community Detection in Directed Networks, in *The Second ASE International Conference on Big Data Science and Computing, BigDataScience* (Stanford, CA, May 27–31, 2014), 2014
20. A. Singhal, K. Subbian, J. Srivastava, T. G. Kolda, and A. Pinar, Dynamics of Trust Reciprocation in Multi-relational Networks, in *Proceedings of the 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM '13)* (Niagara Falls, Canada, Aug. 25–28, 2013), ACM, 2013, pp. 661–665, DOI: 10.1145/2492517.2555242
19. C. Seshadhri, A. Pinar, and T. G. Kolda, Triadic Measures on Graphs: The Power of Wedge Sampling, in *Proceedings of the 2013 SIAM International Conference on Data Mining (SDM13)* (Austin, TX, May 2–4, 2013), 2013, pp. 10–18, DOI: 10.1137/1.9781611972832.2
18. N. Durak, T. G. Kolda, A. Pinar, and C. Seshadhri, A Scalable Null Model for Directed Graphs Matching All Degree Distributions: In, Out, and Reciprocal, in *Proceedings of IEEE 2013 2nd International Network Science Workshop (NSW 2013)* (West Point, NY, Apr. 29–May 1, 2013), IEEE Computer Society, Apr. 2013, pp. 23–30, DOI: 10.1109/NSW.2013.6609190
17. N. Durak, A. Pinar, T. G. Kolda, and C. Seshadhri, Degree Relations of Triangles in Real-world Networks and Graph Models, in *Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM'12)* (Maui, Hawaii, Oct. 29–Nov. 2, 2012), ACM, 2012, pp. 1712–1716, DOI: 10.1145/2396761.2398503
16. A. Pinar, C. Seshadhri, and T. G. Kolda, The Similarity between Stochastic Kronecker and Chung-Lu Graph Models, in *Proceedings of the 12th SIAM International Conference on Data Mining (SDM12)* (Anaheim, CA, Apr. 26–28, 2012), 2012, pp. 1071–1082, DOI: 10.1137/1.9781611972825.92
15. J. D. Basilico, M. A. Munson, T. G. Kolda, K. R. Dixon, and W. P. Kegelmeyer, COMET: A Recipe for Learning and Using Large Ensembles on Massive Data, in *Proceedings of the 2011 IEEE International Conference on Data Mining (ICDM 2011)* (Vancouver, BC, Dec. 11–14, 2011), 2011, pp. 41–50, DOI: 10.1109/ICDM.2011.39
14. C. Seshadhri, A. Pinar, and T. G. Kolda, An In-Depth Study of Stochastic Kronecker Graphs, in *Proceedings of the 2011 IEEE International Conference on Data Mining (ICDM 2011)* (Vancouver, BC, Dec. 11–14, 2011), 2011, pp. 587–596, DOI: 10.1109/ICDM.2011.23
13. E. Acar, T. G. Kolda, and D. M. Dunlavy, All-at-once Optimization for Coupled Matrix and Tensor Factorizations, in *Proceedings of Mining and Learning with Graphs (MLG'11)*, Aug. 2011, https://www.cs.purdue.edu/mlg2011/papers/paper_4.pdf
12. G. Ballard, T. G. Kolda, and T. Plantenga, Efficiently Computing Tensor Eigenvalues on a GPU, in *Proceedings of the 2011 IEEE International Symposium on Parallel and Distributed Processing Workshops and PhD Forum (IPDPSW'11), 12th IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC-11)* (Anchorage, Alaska, May 16–20, 2011), IEEE Computer Society, May 2011, pp. 1340–1348, DOI: 10.1109/IPDPS.2011.287
11. E. Acar, D. M. Dunlavy, T. G. Kolda, and M. Mørup, Scalable Tensor Factorizations with Missing Data, in *Proceedings of the 2010 SIAM International Conference on Data Mining (SDM10)* (Columbus, Ohio, Apr. 29–May 1, 2010), 2010, pp. 701–712, DOI: 10.1137/1.9781611972801.61
10. E. Acar, D. M. Dunlavy, and T. G. Kolda, Link Prediction on Evolving Data using Matrix and Tensor Factorizations, in *Proceedings of the 2009 IEEE International Conference on Data Mining Workshops (ICDMW'09)* (Miami, FL, Dec. 6, 2009), Dec. 2009, pp. 262–269, DOI: 10.1109/ICDMW.2009.54
9. T. G. Kolda and J. Sun, Scalable Tensor Decompositions for Multi-aspect Data Mining, in *Proceedings of the 8th IEEE International Conference on Data Mining (ICDM 2008)* (Pisa, Italy, Dec. 15–19, 2008), 2008, pp. 363–372, DOI: 10.1109/ICDM.2008.89
8. B. W. Bader, R. A. Harshman, and T. G. Kolda, Temporal Analysis of Semantic Graphs using ASALSAN, in *Proceedings of the 7th IEEE International Conference on Data Mining (ICDM 2007)* (Omaha, NE, Oct. 28–31, 2007), 2007, pp. 33–42, DOI: 10.1109/ICDM.2007.54

7. P. A. Chew, B. W. Bader, T. G. Kolda, and A. Abdelali, Cross-language Information Retrieval using PARAFAC2, in *Proceedings of the 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD '07)* (San Jose, CA, Aug. 12–15, 2007), ACM, 2007, pp. 143–152, DOI: 10.1145/1281192.1281211
6. T. Kolda and B. Bader, The TOPHITS Model for Higher-order Web Link Analysis, in *Proceedings of Link Analysis, Counterterrorism and Security 2006, Sixth SIAM International Conference on Data Mining, SDM06* (Bethesda, MD, Apr. 22, 2006), 2006, http://www.siam.org/meetings/sdm06/workproceed/Link%20Analysis/21Tamara_Kolda_SIAMLACS.pdf
5. T. G. Kolda, B. W. Bader, and J. P. Kenny, Higher-Order Web Link Analysis Using Multilinear Algebra, in *Proceedings of the 5th IEEE International Conference on Data Mining (ICDM 2005)* (Houston, TX, Nov. 27–30, 2005), 2005, pp. 242–249, DOI: 10.1109/ICDM.2005.77
4. M. L. Chiesa, R. E. Jones, K. J. Perano, and T. G. Kolda, Parallel Optimization of Forging Processes for Optimal Material Properties, in *Proceedings of the 8th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM 2004)* (Columbus, Ohio, Jun. 13–17, 2004), vol. 712, AIP Conference Proceedings, 2004, pp. 2080–2084, DOI: 10.1063/1.1766841
3. J. M. Conroy, J. R. L. Becker, W. Lefkowitz, K. L. Christopher, R. B. Surana, T. O’Leary, D. P. O’Leary, and T. G. Kolda, Hidden Markov Models for Chromosome Identification, in *Proceedings of the 14th IEEE Symposium on Computer-Based Medical Systems (CBMS 2001)* (Bethesda, MD, Jul. 26–27, 2001), 2001, DOI: 10.1109/CBMS.2001.941764
2. T. G. Kolda, Partitioning Sparse Rectangular Matrices for Parallel Processing, in *Solving Irregularly Structured Problems in Parallel, 5th International Symposium, IRREGULAR’98* (Berkeley, CA, Aug. 9–11, 1998), ed. by A. Ferreira et al., vol. 1457, Lecture Notes in Computer Science 1457, Springer Berlin Heidelberg, 1998, pp. 68–79, DOI: 10.1007/BFb0018528
1. B. Hendrickson and T. G. Kolda, Partitioning Sparse Rectangular Matrices for Parallel Computations of Ax and $A^T v$, in *Applied Parallel Computing Large Scale Scientific and Industrial Problems, 4th International Workshop, PARA’98* (Umeå, Sweden, Jun. 14–17, 1998), ed. by B. Kågström et al., vol. 1541, Lecture Notes in Computer Science 1541, Springer Berlin Heidelberg, 1998, pp. 239–247, DOI: 10.1007/BFb0095342

— Book Chapters

3. D. M. Dunlavy, T. G. Kolda, and W. P. Kegelmeyer, Multilinear Algebra for Analyzing Data with Multiple Linkages, in *Graph Algorithms in the Language of Linear Algebra*, ed. by J. Kepner and J. Gilbert, Fundamentals of Algorithms, SIAM, 2011, pp. 85–114
2. T. G. Kolda and V. Torczon, Understanding Asynchronous Parallel Pattern Search, in *High Performance Algorithms and Software for Nonlinear Optimization*, ed. by G. D. Pillo and A. Murli, vol. 82, Applied Optimization, Springer US, 2003, pp. 323–342, DOI: 10.1007/978-1-4613-0241-4_15
1. T. G. Kolda and D. P. O’Leary, Latent Semantic Indexing Via a Semi-discrete Matrix Decomposition, in *The Mathematics of Information Coding, Extraction and Distribution*, ed. by G. Cybenko, D. P. O’Leary, and J. Rissanen, vol. 107, IMA Volumes in Mathematics and Its Applications, Springer New York, 1999, pp. 73–80, DOI: 10.1007/978-1-4612-1524-0_5

— Technical Reports and Other Papers

38. R. Ward and T. G. Kolda, Convergence of Alternating Gradient Descent for Matrix Factorization, May 11, 2023, arXiv:2305.06927 [cs.LG]
37. R. Jin, J. Kileel, T. G. Kolda, and R. Ward, Scalable Symmetric Tucker Tensor Decomposition, Apr. 4, 2022, arXiv:2204.10824
36. J. M. Pereira, J. Kileel, and T. G. Kolda, Tensor Moments of Gaussian Mixture Models: Theory and Applications, Feb. 14, 2022, arXiv:2202.06930 [stat.ML]

35. B. W. Larsen and T. G. Kolda, Sketching Matrix Least Squares via Leverage Scores Estimates, Jan. 25, 2022, arXiv:2201.10638 [math.NA]
34. A. Buluc, T. G. Kolda, S. M. Wild, M. Anitescu, A. DeGennaro, J. Jakeman, C. Kamath, R. Kannan, M. E. Lopes, P.-G. Martinsson, K. Myers, J. Nelson, J. M. Restrepo, C. Seshadhri, D. Vrable, B. Wohlberg, S. J. Wright, C. Yang, and P. Zwart, Randomized Algorithms for Scientific Computing (RASC), Apr. 19, 2021, DOI: 10.2172/1807223
33. C. Anderson-Bergman, T. G. Kolda, and K. Kincher-Winoto, XPCA: Extending PCA for a Combination of Discrete and Continuous Variables, arXiv, Aug. 2018, arXiv:1808.07510 [stat.ML]
32. T. G. Kolda and D. M. Dunlavy, The Canonical Polyadic Tensor Decomposition and Variants for Mining Multi-Dimensional Data, in *SIAM 2018 International Conference on Data Mining*, refereed tutorial, 2018, https://tensors.gitlab.io/2018-05_SDM18_Tensor_Tutorial/
31. A. Williams, H. Kim, F. Wang, S. Vyas, K. Shenoy, M. Schnitzer, T. G. Kolda, and S. Ganguli, Dimension Reduction of Multi-trial Neural Data by Tensor Decomposition (extended abstract), in *Computational and Systems Neuroscience (Cosyne) 2017* (Feb. 23–26, 2017), 2017
30. A. Williams, S. Ganguli, and T. G. Kolda, Canonical Polyadic Tensor Decomposition Identifies Inputs to Artificial Networks (extended abstract), in *Brains and Bits: Neuroscience Meets Machine Learning, NIPS 2016* (Barcelona, Spain, Dec. 9–10, 2016), 2016
29. M. D. Schatz, R. A. van de Geijn, and T. G. Kolda, A Brief Summary on Formalizing Parallel Tensor Distributions, Redistributions, and Algorithm Derivations, Tech. Rep. 2015-8453, Sandia National Laboratories, Sep. 2015, DOI: 10.2172/1222973
28. T. G. Kolda, Symmetric Orthogonal Tensor Decomposition is Trivial, Mar. 2015, arXiv:1503.01375
27. C. Peng, T. G. Kolda, and A. Pinar, Accelerating Community Detection by Using K-core Subgraphs, Mar. 2014, arXiv:1403.2226
26. T. G. Kolda, J. Helms, A. Pinar, and W. P. Kegelmeyer, Final Report: Robust Decision Making Despite Compromised Data, Tech. Rep. SAND2013-8949, Sandia National Laboratories, Oct. 2013
25. T. D. Plantenga and T. G. Kolda, C++ Tensor Toolbox User Manual, Tech. Rep. SAND2012-3087, Sandia National Laboratories, Apr. 2012, DOI: 10.2172/1039397
24. T. D. Plantenga and T. G. Kolda, Analytics for Cyber Network Defense, Tech. Rep. SAND2011-3786, Sandia National Laboratories, May 2011, <http://www.osti.gov/scitech/biblio/1113857>
23. E. C. Chi and T. G. Kolda, Making Tensor Factorizations Robust to Non-Gaussian Noise, Tech. Rep. SAND2011-1877, Sandia National Laboratories, Mar. 2011, DOI: 10.2172/1011706
22. E. C. Chi and T. G. Kolda, Making Tensor Factorizations Robust to Non-Gaussian Noise, in *NIPS Workshop on Tensors, Kernels, and Machine Learning* (Whistler, BC, Dec. 10, 2010), Oct. 2010, preprint available at arXiv:1010.3043 [math.NA]
21. D. M. Dunlavy and T. G. Kolda, LDRD Final Report: Leveraging Multi-way Linkages On Heterogeneous Data, Tech. Rep. SAND2010-6357, Sandia National Laboratories, Sep. 2010, DOI: 10.2172/1008126
20. D. M. Dunlavy, T. G. Kolda, and E. Acar, Poblano v1.0: A Matlab Toolbox for Gradient-Based Optimization, Tech. Rep. SAND2010-1422, Sandia National Laboratories, Mar. 2010, DOI: 10.2172/989350
19. K. H. Chiang, C. L. Corbett, T. G. Kolda, J. A. V. Randwyk, and A. S. Yoshimura, Final Report for the Enabling All-Threat Analysis through Intelligent Filtering of Network Traffic LDRD, Tech. Rep. SAND2009-7392, Sandia National Laboratories, Nov. 2009
18. T. G. Kolda and M. J. Procopio, Generalized BadRank with Graduated Trust, Tech. Rep. SAND2009-6670, Sandia National Laboratories, Oct. 2009
17. E. Acar, D. M. Dunlavy, and T. G. Kolda, CPOPT: Optimization for Fitting CANDECOMP/PARAFAC Models (extended abstract), in *Workshop on Computational Algebraic Statistics, Theories and Applications (CASTA 2008)* (Kyoto, Japan, Dec. 10–12, 2008), 2008

16. N. Goldberg, T. G. Kolda, and A. S. Yoshimura, Concurrent Optimization with DUET: DIRECT Using External Trial Points, Tech. Rep. SAND2008-5844, Sandia National Laboratories, Sep. 2008
15. T. G. Kolda and B. W. Bader, Multi-way Data Analysis and Applications (extended abstract), in *Proceedings of the 2008 Sandia Workshop on Data Mining and Data Analysis*, ed. by J. M. Brandt, D. M. Dunlavy, and A. C. Gentile, SAND2008-6109, Sandia National Laboratories, Sep. 2008, pp. 42–45
14. K. H. Chiang, C. L. Corbett, T. G. Kolda, J. A. Van Randwyk, and A. S. Yoshimura, Preparation and Analysis of Web Search Data for Identification of National Security Threats, Tech. Rep. SAND2008-1479, Sandia National Laboratories, Mar. 2008
13. B. W. Bader and T. G. Kolda, Final Report: Data Mining on Attributed Relationship Graphs, Tech. Rep. SAND2007-8018, Sandia National Laboratories, Dec. 2007
12. T. M. Selee, T. G. Kolda, W. P. Kegelmeyer, and J. D. Griffin, Extracting Clusters from Large Datasets with Multiple Similarity Measures Using IMSCAND, in *CSRI Summer Proceedings 2007*, ed. by M. L. Parks and S. S. Collis, Tech. Rep. SAND2007-7977, Sandia National Laboratories, Dec. 2007, pp. 87–103, <http://www.cs.sandia.gov/CSRI/Proceedings/CSRI2007.pdf>
11. C. Faloutsos, T. G. Kolda, and J. Sun, Mining Large Graphs and Streams using Matrix and Tensor Tools (extended abstract), in *Proceedings of the 2007 ACM SIGMOD International Conference on Management of Data (SIGMOD '07)* (Beijing, China, Jun. 11–14, 2007), ACM, 2007, p. 1174, DOI: 10.1145/1247480.1247647
10. M. S. Eldred, A. A. Giunta, S. L. Brown, B. M. Adams, D. M. Dunlavy, J. P. Eddy, D. M. Gay, J. D. Griffin, W. E. Hart, P. D. Hough, T. G. Kolda, M. L. Martinez-Canales, L. P. Swiler, J.-P. Watson, and P. J. Williams, DAKOTA, a Multilevel Parallel Object-oriented Framework for Design Optimization, Parameter Estimation, Uncertainty Quantification, and Sensitivity Analysis: Version 4.0 Reference Manual, Tech. Rep. SAND2006-4055, Sandia National Laboratories, Oct. 2006, DOI: 10.2172/895073
9. T. G. Kolda, R. M. Lewis, and V. Torczon, A Generating Set Direct Search Augmented Lagrangian Algorithm for Optimization with a Combination of General and Linear Constraints, Tech. Rep. SAND2006-5315, Sandia National Laboratories, Aug. 2006, DOI: 10.2172/893121
8. T. G. Kolda, Multilinear Operators for Higher-order Decompositions, Tech. Rep. SAND2006-2081, Sandia National Laboratories, Apr. 2006, DOI: 10.2172/923081
7. J. D. Griffin and T. G. Kolda, A Parallel, Asynchronous Method for Derivative-Free Nonlinear Programs (extended abstract), in *Mathematical Software - ICMS 2006, Second International Congress on Mathematical Software* (Castro Urdiales, Spain, Sep. 1–3, 2006), vol. 4151, Lecture Notes in Computer Science, Springer Berlin Heidelberg, 2006, pp. 260–262, DOI: 10.1007/11832225_26
6. B. W. Bader, R. P. Pawlowski, and T. G. Kolda, Robust Large-scale Parallel Nonlinear Solvers for Simulations, Tech. Rep. SAND2005-6864, Sandia National Laboratories, Nov. 2005, DOI: 10.2172/876345
5. P. D. Hough, T. G. Kolda, and H. A. Patrick, Usage Manual for APPSPACK 2.0, Tech. Rep. SAND2000-8843, Sandia National Laboratories, 2000
4. E. Chisholm and T. G. Kolda, New Term Weighting Formulas for the Vector Space Method in Information Retrieval, Tech. Rep. ORNL-TM-13756, Oak Ridge National Laboratory, Mar. 1999
3. T. G. Kolda, *Limited-Memory Matrix Methods with Applications*, PhD thesis, Applied Mathematics Program, University of Maryland, College Park, 1997
2. T. L. Gibson (nee Kolda), J. Hill, C. Juergens, S. Poothari, L. Potter, and S. Stolarski, Matching Permuted Variables in Two or More Data Sets, Tech. Rep. CRSC-TR96-7, Center for Research in Scientific Computation, North Carolina State University, 1996
1. T. L. Gibson (nee Kolda), The NAS Parallel Conjugate Gradient Benchmark on the Cray T3D, Tech. Rep. SRC-TR-94-192, Supercomputing Research Center, Bowie, MD, 1994

— Expository Articles, Etc.

13. T. G. Kolda, Introducing the New SIAM Activity Group on Equity, Diversity, and Inclusion, *SIAM News*: 56(4):2, May 1, 2023, <https://sinews.siam.org/Details-Page/introducing-the-new-siam-activity-group-on-equity-diversity-and-inclusion>
12. T. G. Kolda, R. E. Caffisch, I. Fonseca, M. Fuentes, R. Garibaldi, T. Grandine, T. Jackson, X.-L. Meng, J. Pipher, and T. Tao, Illustrating the Impact of the Mathematical Sciences (Poster Series), Jan. 2023, <https://nap.nationalacademies.org/resource/other/deps/illustrating-math/interactive/>
11. T. Kolda, Mathematics: The Tao of Data Science, *Harvard Data Science Review*, Sep. 30, 2020, <https://hdsr.mitpress.mit.edu/pub/9fnd629q>
10. T. G. Kolda, Introduction to SIAM Journal on Mathematics of Data Science (SIMODS), *SIAM Journal on Mathematics of Data Science*: 1(1):1–7, Jan. 2019, DOI: 10.1137/19n974701
9. B. Debusschere, L. Sadler, B. Antoun, J. Templeton, and T. Kolda, Improved Equity, Diversity, and Inclusion to Sustain an Effective Applied Mathematics Workforce, Tech. Rep., Sandia National Laboratories, Aug. 1, 2017, <https://www.osti.gov/biblio/1466495>
8. T. G. Kolda and I. Yaneh, Special Section on Two Themes: Planet Earth and Big Data (Introduction), *SIAM Journal on Scientific Computing*: 36(5), Oct. 2014, DOI: 10.1137/130973727
7. T. G. Kolda and A. Pinar, Large-scale Network Analysis at SIAM CSE Conference, *SIAM News*: 46(5), Jun. 2013, <https://sinews.siam.org/Details-Page/large-scale-network-analysis-at-siam-cse-conference>
6. T. G. Kolda and V. J. Torczon, Top Ten Ways to Lose an Audience, *SIAM News*: 44(3), Apr. 2011, <https://archive.siam.org/news/news.php?id=1876>
5. D. M. Dunlavy, B. Hendrickson, and T. G. Kolda, Mathematical Challenges in Cybersecurity, Tech. Rep. SAND 2009-0805, Sandia National Laboratories, Feb. 2009
4. T. G. Kolda and U. Rude, First BGCE Student Prize in CSE, *SIAM News*: 40(5), Jun. 2007, <http://www.siam.org/news/news.php?id=1130>
3. T. Kolda et al., Data Sciences Technology for Homeland Security Information Management and Knowledge Discovery: DHS Workshop on Data Sciences (Alexandria, VA, Sep. 22–23, 2004), Tech. Rep. SAND2005-6648, Sandia National Laboratories, Jan. 2005
2. T. G. Kolda, An Unexpected Turn, in *Complexities: Women in Mathematics*, ed. by B. A. Case and A. M. Leggett, Princeton University Press, Jan. 2005, pp. 388–390
1. T. G. Kolda, On the Threshold of a New Era for Parallel Computing, *SIAM News*: 37(5), Jun. 2004, <http://www.siam.org/siamnews/06-04/parallel.htm>

— Software

- TuckerMPI (C++ with MPI) — Parallel sequentially-truncated HOSVD tensor decomposition
- Tensor Toolbox (MATLAB) — Higher-order operations of multidimensional arrays
- FEASTPACK (MATLAB) — Generative graph model
- Poblano Toolbox (MATLAB) — Large-scale algorithms for nonlinear optimization
- HOPSPACK (C++) — Hybrid Optimization Parallel Search Package
- MET (MATLAB) — Memory-efficient Tucker (distributed with Tensor Toolbox)
- TaMALE — Multi-way, semantic graph creation and visualization
- Trilinos (C++) — A suite of high-performance numerical software
- NOX (C++) — An Object-Oriented Nonlinear Equation Solver Package (part of Trilinos)
- APPSPACK (C++ with MPI) — Asynchronous Parallel Pattern Search
- SDDPACK (C) — Semidiscrete Matrix Decomposition
- Modified L-BFGS (FORTRAN) — L-BFGS with update skipping and varying memory

— Conference & Workshop Presentations

- Plenary Lecture*, ICIAM 2023 Tokyo: 10th International Congress on Industrial and Applied Mathematics, Waseda University, Tokyo, Japan, Aug. 20–25, 2023
- Lecturer, Mathematics of Big Data: Sketching and (Multi-) Linear Algebra, Mathematical Sciences Research Institute (MSRI), Berkeley, CA, Jul. 10–21, 2023
- Invited Talk, Special Lectures in Celebration of Marsha Berger and Margaret Wright, Courant Institute, New York University, New York, Apr. 21, 2023
- Invited Talk, Workshop on Scientific Machine Learning (SciML), Oden Institute, University of Texas, Austin, Apr. 3–4, 2023
- Invited Mini-Tutorial and Minisymposium Talk, SIAM Conference on Mathematics of Data Science (MDS22), San Diego, CA, Sep. 26–30, 2022
- Invited Talk, Midwest Optimization & Statistical Learning (MO&S) Workshop, Northwestern University, Evanston, IL, May 19, 2022
- Invited Talk, WiDS2022: Women in Data Science, Stanford University, CA, Mar. 7, 2022 (upcoming)
- Lecturer, Mathematics of Big Data: Sketching and (Multi-) Linear Algebra, Mathematical Sciences Research Institute (MSRI), Berkeley, CA, Jun. 21, 2021 – Jul. 2, 2021
- Minisymposium Talk, SIAM Conference on Applied Linear Algebra (LA21), Online *due to COVID-19*, May 17–21, 2021
- Minisymposium Talk, SIAM Conference on Imaging Sciences (IS20), Online *due to COVID-19*, Jul. 15, 2020
- Minisymposium Talk, SIAM Annual Meetings, Online *due to COVID-19*, Jul. 8, 2020
- Minisymposium Talk, SIAM Conference on Mathematics of Data Science (MDS20), Online *due to COVID-19*, Jun. 29, 2020
- Plenary Panelist and Minisymposium Talk, SIAM Conference on Parallel Processing for Scientific Computing (PP20), Seattle, WA, Feb. 12–15, 2020
- Keynote Talk, Workshop on AI and Tensor Factorizations for Physical, Chemical, and Biological Systems, Santa Fe, NM, Sep. 17–20, 2019
- Plenary Lecture*, International Conference on Continuous Optimization (ICCOPT), Berlin, Germany, Aug. 3–8, 2019
- Plenary Lecture*, SIAM Conference on Applied Algebraic Geometry, Bern, Switzerland, Jul. 9–13, 2019
- Lecturer, 2019 Gene Golub Summer School, Center Paul-Langevin, France, Jun. 17–28, 2019
- Plenary Lecture*, ASA Symposium on Data Science & Statistics, Bellevue, WA, May 29–Jun. 1, 2019
- Invited Talk, Peter G. Hall Conference 2019: Statistics and Machine Learning, University of California, Davis, CA, May 10–11, 2019
- Keynote Talk, Workshop on Algorithmic, Mathematical, and Statistical Foundations of Data Science and Applications, Purdue University, West Lafayette, IN, Apr. 11–13, 2019
- Minisymposium Talk, SIAM Conference of Computational Science & Engineering (CSE19), Spokane, WA, Feb. 25–Mar. 1, 2019
- Minisymposium Talk, 2018 SIAM Annual Meeting (AN18), Portland, OR, Jul. 9–13, 2018
- Invited Talk, TRICAP 2018, Angel Fire, NM, Jun. 10–15, 2018
- Refereed Tutorial, SIAM International Conference on Data Mining, San Diego, CA, May 3–5, 2018
- SIAM Invited Address*, 2018 Joint Mathematics Meeting (JMM 2018), San Diego, CA, Jan. 11, 2018
- Keynote*, MLConf, San Francisco, CA, Nov. 10, 2017
- Invited Talk, Beyond Convexity: Emerging Challenges in Data Sciences, Casa Matematica Oaxaca

*Keynote, plenary, semi-plenary, or equivalent at a larger event, i.e., 500 or more attendees.

- (CMO), Mexico, Oct. 22–27, 2017
- Invited Tutorial, Autumn School: Optimization in Machine Learning and Data Science, Trier University, Trier, Germany, Aug. 28–31, 2017
 - Plenary Lecture*, 21st Conference of the International Linear Algebra Society (ILAS 2017: Connections), Iowa State University, IA, Jul. 24–28, 2017
 - Minisymposium Talk, SIAM Annual Meeting (AN17), Pittsburg, PA, Jul. 10–14, 2017
 - Keynote Talk, Scientific Computing around Lousianan (SCALA'17), New Orleans, LA, Mar. 17–18, 2017
 - Minisymposium Talk, SIAM Computational Science and Engineering (CSE), Atlanta, GA, Feb. 27–Mar. 3, 2017
 - Invited Talk, IPAM Workshop: Big Data Meets Computation, UCLA, Los Angeles, CA, Jan. 30–Feb. 3, 2017
 - Semiplenary Lecture*, SC16: The International Conference for High Performance Computing, Networking, Storage and Analysis, Salt Lake City, UT, Nov. 13–18, 2016
 - Keynote Talk, 12th International Workshop on Mining and Learning with Graphs (MLG16), San Francisco, CA, Aug. 14, 2016
 - Minisymposium Talk (Celebration for Charlie Van Loan), SIAM Annual Meeting (AN16), Boston, MA, Jul. 11–16, 2016
 - Presented Refereed Paper, IEEE International Parallel & Distributed Processing Symposium (IPDPS16), Chicago, IL, May 23–27, 2016
 - Minisymposium Talk, SIAM Conference on Imaging Science, Albuquerque, NM, May 23–26, 2016
 - Minisymposium Talk, SIAM Conference on Applied Linear Algebra (LA15), Atlanta, GA, Oct. 26–30, 2015
 - Keynote Lecturer, Fortieth Numerical Analysis Conference Woudschoten – Past, Present and Future of Scientific Computing, Zeist, The Netherlands, Oct. 7–9, 2015
 - Invited Talk, Mathematics in Data Science: Exploring the Role of the Mathematical Sciences in an Evolving Discipline, ICERM, Providence, RI, Jul. 28–30, 2015
 - Semiplenary Lecture*, International Symposium on Mathematical Programming (ISMP), Pittsburgh, PA, Jul. 12–17, 2015
 - Plenary Lecture, 26th Biennial Numerical Analysis Conference, Glasgow, Scotland, Jun. 23–26, 2015
 - Minisymposium Talk, SIAM Conference on Computational Science (CSE15), Salt Lake City, UT, Mar. 14–18, 2015
 - Invited Talk, Workshop on Optimization and Matrix Methods in Big Data, Fields Institute, Toronto, Canada, Feb. 9–13, 2015
 - Keynote Talk*, MLconf: The Machine Learning Conference, San Francisco, CA, Nov. 14, 2014
 - Invited Talk, Signature Discovery Workshop, University of Washington, Seattle, WA, Nov. 3–4, 2014
 - Keynote Talk, 6th SIAM Workshop on Combinatorial Scientific Computing (CSC14), Lyon, France, Jul. 21–23, 2014
 - Contributed Talk, SIAM Annual Meeting (AN14), Chicago, IL, Jul. 7–14, 2014
 - Minisymposium Talk, SIAM Conference on Optimization (OP14), San Diego, CA, May 19–22, 2014
 - Invited Talk, Structure, Statistical Inference, and Dynamics in Networks: From Graphs to Rich Data, Santa Fe Institute (SFI), Santa Fe, NM, May 6–9, 2013
 - Keynote Talk*, SIAM Computational Science & Engineering (CSE13), Boston, MA, Feb. 25–Mar. 1, 2013
 - Invited Talk, Workshop on Time-varying Complex Network Analysis, Cambridge, UK, Sep. 19, 2012
 - Minisymposium Talk, SIAM Annual Meeting (AN12), Minneapolis, MN, Jul. 9–13, 2012
 - Invited Talk, ThRee-way methods In Chemistry And Psychology (TRICAP 2012), Bruges, Belgium,

Jun. 2–7, 2012

- Invited Talk, Conference on Data Analysis (CODA), Santa Fe, NM, Feb. 29–Mar. 2, 2012
- Invited Talk, Large Graphs: Modeling, Algorithms, and Applications, Institute for Mathematics and Its Applications, Minneapolis, MN, Oct. 24–28, 2011
- Invited Talk, 2nd Graph Exploitation Symposium, Dedham, MA, Aug. 9–10, 2011
- Minisymposium Talk, International Conference for Industrial and Applied Mathematics (ICIAM), Vancouver, BC, Canada, Jul. 18–22, 2011
- Contributed Talk, Householder Symposium XVIII, Tahoe City, CA, Jun. 12–17, 2011
- Invited Participant, On-Ramps into Academia, Seattle, WA, May 15–17, 2011
- Contributed Talk, Conference on Tensor Decompositions and Applications (TDA2010), Monopoli, Bari, Italy, Sep. 13–17, 2010
- Invited Talk, Conference on Numerical Linear Algebra: Perturbation, Performance, and Portability, Austin, TX, Jul. 19–20, 2010
- Topical (Semi-Plenary) Talk*, SIAM Annual Meeting (AN10), Pittsburgh, PA, Jul. 12–16, 2010
- Plenary Lecture, BIT 50 — Trends in Numerical Computing, Lund, Sweden, Jun. 17–20, 2010
- Presented Refereed Paper, SIAM International Conference on Data Mining (SDM10), Columbus, OH, Apr. 29–May 1, 2010
- Invited Talk, AIM Workshop on Computational Optimization for Tensor Decompositions, Palo Alto, CA, Mar. 29–Apr. 2, 2010
- Invited Talk, BIRS Workshop on Sparse Random Structures: Analysis and Computation, Banff, Canada, Jan. 24–29, 2010
- Keynote Talk, Workshop on Large-scale Data Mining: Theory and Applications (LDMTA 2009), IEEE International Conference on Data Mining (ICDM09), Miami, FL, Dec. 6, 2009
- Minisymposium Talk, SIAM Conference on Applied Linear Algebra (LA09), Monterey Bay-Seaside, CA, Oct. 26–29, 2009
- Invited Talk, Career Options for Women in Mathematical Sciences, Institute for Mathematics and Its Applications (IMA), Minneapolis, MN, Apr. 2–4, 2009
- Contributed Talk, SIAM Conference on Computational Science and Engineering (CSE09), Miami FL, Mar. 2–6, 2009
- Invited Talk, Computational Algebraic Statistics, Theories and Applications (CASTA2008), Kyoto, Japan, Dec. 10–11, 2008
- Invited Talk, Multi-Manifold Data Modeling and Applications, Institute for Mathematics and Its Applications (IMA), Minneapolis, MN, Oct. 27–30, 2008
- Minisymposium Talk, SIAM Annual Meeting (AN08), San Diego, CA, Jul. 7–11, 2008
- Plenary Panelist, SIAM Conference on Optimization (OP08), Boston, MA, May 10–13, 2008
- Invited Talk, Symposium on Gene Golub’s Legacy: Matrix Computations — Foundation and Future, Stanford University, CA, Mar. 1, 2008
- Invited Talk, GAMM Seminar on Tensor Approximations, Max-Planck Institute for Mathematics in the Sciences, Leipzig, Germany, Jan. 25–26, 2008
- Invited Poster, 19th Annual Kavli Frontiers of Science Symposium, Irvine, CA, Nov. 8–10, 2007
- Keynote Talk and Plenary Panelist*, IEEE International Conference on Data Mining (ICDM07), Omaha, NE, Oct. 28–31, 2007
- Invited Talk, Numerical Tools and Fast Algorithms for Massive Data Mining, Search Engines and Applications, Institute for Pure and Applied Mathematics (IPAM), Los Angeles, CA, Oct. 22–26, 2007
- Tutorial, International Conference on Knowledge Discovery and Data Mining (KDD 2007), San Jose, CA, Aug. 12–15, 2007

- Minisymposium Talk, Sixth International Congress on Industrial and Applied Mathematics (ICIAM07), Zurich, Switzerland, Jul. 16–20, 2007
- Tutorial, 2007 International Conference on Machine Learning (ICML07), Oregon State University, Corvallis, OR, un. 20–24, 2007
- Tutorial, SIAM International Conference on Data Mining (SDM07), Minneapolis, MN, Apr. 26–28, 2007
- Invited Talk, Workshop on Algorithms for Modern Massive Data Sets (MMDS), Stanford University, CA, Jun. 21–24, 2006
- Invited Talk, ThRee-way methods In Chemistry And Psychology (TRICAP 2006), Mediterranean Agronomic Institute of Chania, Crete, Greece, Jun. 4–9, 2006
- Presented Refereed Paper, Workshop on Link Analysis, Counterterrorism and Security, held in conjunction with SIAM International Data Mining Conference (SDM06), Bethesda, MD, Apr. 22, 2006
- Minisymposium Talk, SIAM Conference on Parallel Processing for Scientific Computing (PP06), San Francisco, CA, Feb. 22–24, 2006
- Presented Refereed Paper, IEEE International Conference on Data Mining (ICDM05), Houston, TX, Nov. 27–30, 2005
- Invited Talk, Workshop on Tensor Decompositions and Applications, CIRM, Luminy, Marseille, France, Aug. 29–Sep. 2, 2005
- Minisymposium Talk, SIAM Conference on Computational Science & Engineering (CSE05), Orlando, FL, Feb. 12–15, 2005
- Minisymposium Talk, First International Conference on Continuous Optimization (ICCOPT-I), Rensselaer Polytechnic Institute, Troy, NY, Aug. 2–4, 2004
- Minisymposium Talk, SIAM Annual Meeting (AN04), Portland, OR, Jul. 12–16, 2004
- Invited Talk, Tensor Decompositions Workshop, American Institute of Mathematics Research Conference Center, Palo Alto, CA, Jul. 19–23, 2004
- Minisymposium Talk, Eighth Copper Mountain Conference on Iterative Methods, Copper Mountain, CO, ar. 28–Apr. 2, 2004
- Minisymposium Talk, SIAM Conference on Parallel Processing for Scientific Computing (PP04), San Francisco, CA, Feb. 25–27, 2004
- Minisymposium Talk, SIAM Conference on Applied Linear Algebra (LA03), Williamsburg, VA, Jul. 15–19, 2003
- Minisymposium Talk, 2003 SIAM Annual Meeting (AN03), Montreal, Canada, Jun. 16–20, 2003
- Invited Minipanelist, SIAM Computational Sciences & Engineering, Mathematics, and Computer Sciences Workshop, Arlington, VA, Mar. 24–25, 2003
- Invited Talk, Workshop on Optimization in Simulation-Based Models, Institute for Math and Its Applications, University of Minnesota, Minneapolis, MN, Jan. 9–16, 2003
- Minisymposium Talk, SIAM 50th Anniversary and Annual Meeting (SIAM50/AN02), Philadelphia, PA, Jul. 8–12, 2002
- Contributed Talk, SIAM Conference on Optimization (OP02), Toronto, Canada, May 20–22, 2002
- Minisymposium Talk, SIAM Annual Meeting (AN01), San Diego, CA, Jul. 9–13, 2001
- Invited Talk, IMA Workshop on Connecting Women in Mathematical Sciences to Industry, Minneapolis, MN, Sep. 8–11, 2000
- Minisymposium Talk, International Symposium on Mathematical Programming (ISMP 2000), Atlanta, GA, Aug. 7–11, 2000
- Minisymposium Talk, SIAM Annual Meeting, Puerto Rico, Jul. 10–14, 2000
- Invited Talk, Bay Area Scientific Computing Day (BASCD), Berkeley, CA, Feb. 26, 2000

- Minisymposium Talk, Joint Mathematics Meetings (JMM), Washington, D.C., Jan. 19–22, 2000
- Plenary Lecture, Householder Symposium XIV, Whistler, BC, Canada, Jun. 14–18, 1999
- Minisymposium Talk, 6th SIAM Conference on Optimization (OP99), Atlanta, Georgia, ay 10–12, 1999
- Presented Refereed Paper, 5th International Symposium on Solving Irregularly Structured Problems (Irregular'98), Berkeley, CA, Aug. 9–11, 1998
- Contributed Poster, SIAM Annual Meeting (AN98), Toronto, Canada, Jul. 13–17, 1998
- Presented Refereed Paper, 4th International Workshop on Applied Parallel Computing in Large Scale Scientific and Industrial Problems (PARA98), Umeå, Sweden, Jun. 14–17, 1998
- Contributed Poster, SIAM Conference on Applied Linear Algebra (LA97), Snowbird, UT, Oct. 29–Nov. 1, 1997
- Supported Participant, Grace Hopper Celebration of Women in Computing, San Jose, CA, Sep. 19–21, 1997
- Minisymposium Talk, Association for Women in Mathematics Workshop: Focus on Reporting Research Results (in conjunction with 1997 SIAM Annual Meeting), Stanford University, Palo Alto, CA, Jul. 13–15, 1997
- Contributed Talk, SIAM Annual Meeting (AN97), Stanford University, Palo Alto, CA, Jul. 13–18, 1997
- Contributed Poster, Association for Women in Mathematics Workshop: Focus on Reporting Research Results (in conjunction with SIAM Annual Meeting), Kansas City, Missouri, Jul. 22–23, 1996
- Contributed Poster, SIAM Conference on Optimization (OP96), Victoria, BC, Canada, May 20–22, 1996
- Supported Participant, IMA Women in Mathematical Sciences Connected to Industry Workshop, Institute for Mathematics and its Applications, University of Minnesota, Minneapolis, MN, Feb. 23–25, 1996
- Supported Participant, The Industrial Mathematics Modeling Workshop for Graduate Students, Center for Research in Scientific Computation, North Carolina State University, Aug. 7–16, 1995
- Supported Participant, Maui High Performance Computing Center Introductory MHPCC User Training Workshop, Army Research Lab, Aberdeen, MD, Mar. 21–24, 1995
- Supported Participant, National Science Foundation Research Experience for Undergraduates (REU) Summer Program in Matrix Analysis, College of William and Mary, Williamsburg, VA, Summer 1991

— Invited Seminars

- Chemometrics and Machine Learning in Copenhagen (online), Jun. 26, 2023
- Machine Learning at the Flatiron Institute, New York City, NY, Apr. 18, 2023
- Oden Institute Seminar, University of Texas, Austin, TX, Feb. 7, 2023
- Social Decision Analytics Division Seminar Series (online), Biocomplexity Institute, University of Virginia, Charlottesville, VA, Jul. 19, 2022
- Algorithms Coffee Seminar, Department of Computer Science, Northwestern University, Evanston, IL, May 18, 2022
- Colloquium in Computational and Applied Mathematics, University of Chicago, Chicago, IL, May 13, 2022
- Data-Oriented Mathematical and Statistical Sciences Seminar Series (online), Mathematics, Statistics & Actuarial Science (SoMSS) Department, Arizona State University, Tempe, AZ, Apr. 18, 2022
- Applied Mathematics and Statistics Colloquium, Colorado School of Mines, Golden, CO, Apr. 15, 2022
- Computer Science Colloquium, University of Colorado, Boulder, CO, Apr. 14, 2022

- Distinguished Seminar (online), TRIPODS Research Institute for Foundations of Interdisciplinary Data Science (FIDS), Texas A&M University, College Station, TX, Jan. 31, 2022
- Data-Driven Methods for Science and Engineering Seminar (online), University of Washington, Seattle, Feb. 5, 2021
- Department of Mathematics and Statistics Colloquium (online), Texas Tech University, Nov. 4, 2020
- Sayas Numerics Seminar: Online Seminar on Computational Mathematics (online), Oct. 6, 2020
- One World Mathematics of INformation, Data, and Signal (1W-MINDS) Seminar (online), Jul. 23, 2020
- E-NLA: Online seminar series on Numerical Linear Algebra (online), Jul. 1, 2020
- Applied Math Seminar, Univ. California–Berkeley and Lawrence Berkeley Laboratory, May 6, 2020, *held online due to COVID-19*
- Applied & Computational Mathematics Seminar, Princeton University, Princeton, NJ, Nov. 11, 2019
- RED Talk: Where Data Meets Science, North Carolina State University, Raleigh, NC, Oct. 29, 2018
- Mueller-Thuns Distinguished Lecture, Department of Computer Science, University of Illinois, Urbana-Champaign, IL, Oct. 1, 2018
- Analysis Seminar, Drexel University, Philadelphia, PA, Dec. 8, 2017
- Applied Mathematics Seminar, University of California, Merced, CA, Oct. 13, 2017
- Computing + Mathematics Sciences Colloquium, Caltech, Pasadena, CA, May 1, 2017
- Optimization and Data Science Seminar, University of California, San Diego, CA, May 3, 2017
- ICME Distinguished Speaker Series, Stanford University, Palo Alto, CA, Mar. 8, 2017
- Michigan Data Science Seminar Series (MIDAS), University of Michigan, Ann Arbor, MI, Nov. 9, 2016
- Distinguished Lecture, IBM Almaden Research Center, San Jose, CA, Feb. 11, 2016
- SIAM Student Chapter Seminar Series, University of California, Davis, CA, Feb. 4, 2016
- Linear Algebra and Optimization Seminar, ICME, Stanford University, Nov. 19, 2015
- Distinguished Lecture, Scientific Computing and Imaging (SCI) Institute, University of Utah, Salt Lake City, UT, Mar. 13, 2015
- Temple University, Philadelphia, PA, Dec. 10, 2014
- Institute for Computational Engineering and Sciences, University of Texas, Austin, TX, Oct. 14, 2014
- Netflix, Los Gatos, CA, Aug. 18, 2014
- Boeing Distinguished Applied Mathematics Colloquium, University of Washington, Seattle, WA, Oct. 17, 2013
- National Institute of Science & Technology (NIST), Gaithersburg, MD, Jul. 26, 2013
- Interdisciplinary Center for Network Science & Applications (ICENSA), University of Notre Dame, South Bend, IN, Apr. 26, 2013
- Applied Mathematics, University of Maryland, Baltimore County, MD, Dec. 6, 2012
- Numerical Analysis, University of Maryland, College Park, MD, Dec. 4, 2012
- Applied Mathematics, University of California, Merced, CA, Oct. 19, 2012
- Department of Maths, University of Strathclyde, Glasgow, UK, Sep. 17, 2012
- HP Labs, Palo Alto, CA, Aug. 24, 2012
- Digital Technology Center Science and Technology Innovators Lecture Series, University of Minnesota, Minneapolis, MN, Oct. 25, 2011
- Schlumberger Research, Boston, MA, Mar. 24, 2011
- Technical University of Denmark, Copenhagen, Denmark, Jun. 16, 2010

- LAPACK Seminar, University of California, Berkeley, CA, Dec. 3, 2008
- Department of Computer Science, University of Texas, Austin, TX, Aug. 28, 2008
- Stanford SMART Fields Seminar, Stanford University, CA, Apr. 3, 2008
- Industrial Problems Seminar, Institute for Mathematics and its Applications, University of Minnesota, Minneapolis, MN, Apr. 27, 2007
- SCI Institute Seminar Series, University of Utah, Salt Lake City, UT, Apr. 13, 2007
- Applied Mathematics Colloquium, University of North Carolina, Chapel Hill, NC, Nov. 10, 2006
- Numerical Analysis, North Carolina State University, Raleigh, NC, Nov. 9, 2006
- Linear Algebra/Optimization Seminar, Stanford University, Stanford, CA, Oct. 25, 2006
- Scientific Computing Seminar, Lawrence Berkeley National Laboratory, Berkeley, CA, May 12, 2006
- Google, Mountain View, CA, Mar. 21, 2006
- SFU-UBC Distinguished Lecture in Scientific Computing, Vancouver, BC, Canada, Mar. 10, 2006
- Applied Mathematics, University of California, Davis, CA, Feb. 3, 2006
- Applied Mathematics Colloquium, MIT, Boston, MA, Oct. 31, 2005
- Numerical Analysis Seminar, Courant Institute, New York University, New York, NY, Apr. 4, 2003
- Operations Research and Financial Engineering Department, Princeton University, Princeton, NJ, Apr. 1, 2003
- Mathematical, Information, and Computational Science (MICS), Department of Energy, Germantown, MD, Mar. 27, 2003
- Scientific Computing and Computational Mathematics Seminar Series, Stanford University, Stanford, CA, Oct. 21, 2002
- Joint Colloquium sponsored by the Departments of Computer Science and Applied Mathematics, University of Colorado, Boulder, CO, Oct. 3, 2002
- Applied Mathematics, University of California, Davis, CA, Feb. 22, 2001
- Mathematics Colloquium, University of Maryland Baltimore County, Catonsville, MD, Jan. 24, 2000
- Computer Science Colloquium, College of William & Mary, Williamsburg, VA, Jan. 17, 2000
- Scientific Computing and Computational Mathematics Seminar Series, Stanford University, Stanford, CA, Oct. 25, 1999
- Colloquium in Vector and Parallel Computing, ETH, Zürich, Switzerland, Mar. 9, 1999
- Chalmers University of Technology, Göteborg, Sweden, Mar. 5, 1999
- Numerical Linear Algebra Group, Lawrence Berkeley Labs, Berkeley, CA, Jan. 15, 1999
- Computer Science Department, Old Dominion University, Norfolk, VA, Oct. 29, 1998
- Research Seminar, Lucent Bell Labs, Murray Hill, NJ, Apr. 1, 1998
- CASC/ISCR Seminar, Center for Applied Scientific Computing, Lawrence Livermore National Laboratory, Livermore, CA, Feb. 26, 1998
- Joint Computer Science and Mathematics Seminar, University of Tennessee, Knoxville, TN, Nov. 7, 1997
- Applied and Computational Mathematics Division Colloquium, National Institute of Standards and Technology, Gaithersburg, MD, Jan. 14, 1997

— Postdocs & Student Interns

33. Brett Larsen (DOE CSGF graduate), Stanford, Jun. 2018–2021
32. Sam Sherman (NSF MSGI graduate), Notre Dame, Summer 2018
31. Jed Duersch (postdoc), University of California, Berkeley, Jul. 2017–Jul. 2018
30. David Hong (graduate), University of Michigan, Ann Arbor, Summer 2017

29. Robert Bassett (graduate), University of California, Davis, Aug. 2016–Dec. 2016
28. Cassey Battaglino (graduate), Georgia Tech, May 2016–Aug. 2018
27. Jessica Gronski (graduate), University of Colorado, Boulder, Summer 2016
26. Alex Williams (DOE CSGF graduate), Stanford, Summer 2016
25. Sinan Aksoy (graduate), University of California, San Diego, Summer 2015
24. Woody Austin (graduate), University of Texas, Austin, Summer 2014–Summer 2015
23. Grey Ballard (graduate intern and Truman Fellow postdoc), University of California, Berkeley, Summers 2010 & 2011 and Aug. 2013–Jun. 2016
22. Martin Schatz (graduate intern & Sandia Campus Executive Program Fellowship recipient), University of Texas, Austin, Summer 2012, Academic Year 2014–2015
21. Matthew Rocklin (postdoc), University of Chicago, Sep. 2013–Mar. 2014
20. Christine Klymko (graduate), Emory University, Summer 2013
19. Christine Task (graduate), Purdue University, Summer 2012
18. Samantha Hansen (graduate), Northwestern University, Summer 2012
17. David Gleich (Von Neumann postdoc), Stanford University, 2010–2011
16. Eric Chi (DOE CSGF graduate), Rice University, Summers 2010 & 2011
15. Evrim Acar Ataman (postdoc), Rensselaer Polytechnic Institute (RPI), 2008–2010
14. Noam Goldberg (graduate), Rutgers University, Summer 2008
13. Teresa Selee (graduate), North Carolina State University, Summer 2007
12. Josh Griffin (postdoc), University of California, San Diego, 2005–2007
11. Brett Bader (Von Neumann postdoc), University of Colorado, Boulder, 2003–2005
10. Darin Diachin (graduate), Northwestern University, 2003–2004
9. Jill Reese (graduate), North Carolina State University, Summers 2004 & 2005
8. Robert Darwin (undergraduate), North Carolina State University, Summer 2004
7. Genetha Gray (postdoc), Rice University, 2002–2004
6. Gregory Croue (graduate), Ecole Centrale de Lyon, Ecully, France, Jun. 2003
5. Sarah Brown (graduate), University of Maryland, College Park, Summers 2000 & 2002
4. Daniel Dunlavy (graduate), University of Maryland, College Park. Summer 2001
3. H. Alton Patrick (undergraduate), North Carolina State University, Summer 2000
2. Sarah Guske (undergraduate), Washington State University, Summer 1999
1. Erica Chisholm (undergraduate), University of Delaware, Summer 1997

— Professional Service and Committee Work

- National Academies
 - Member, Testing, Evaluating, and Assessing Artificial Intelligence-Enabled Systems under Operational Conditions for the Department of the Air Force, 2022–2023
 - Chair, Illustrating the Impact of the Mathematical Sciences, ad hoc committee for the Board on Mathematical Sciences and Analytics, National Academies of Sciences, Engineering, and Medicine, 2019–2023
 - Member (appointed), Board on Mathematics Sciences and Analytics (BMSA), National Academies, 2018–present
- Editorial Work
 - Founding Editor-in-Chief, SIAM Journal on Mathematics of Data Science, 2018–2023
 - Founding Section Editor, Software and High-Performance Computing, SIAM Journal on Scientific Computing (SISC), 2010–2013, 2014–2016

- Associate Editor, SIAM Journal on Scientific Computing (SISC), 2004–2006, 2007–2009, 2010, 2017–2019
- Associate Editor, SIAM Journal on Matrix Analysis and Applications (SIMAX), 2011–2013, 2014–2016, 2017–2019
- Guest Editor, Special Section on CSE Software and Big Data in CSE, SIAM Journal on Scientific Computing (SISC), 2015
- Editor-in-Chief (with I. Yavneh), Special Section on Big Data and Planet Earth, SIAM Journal on Scientific Computing (SISC) 36(5), 2014
- Editor, Special issue on Tensors and Multilinear Algebra, Linear Algebra and Its Applications (LAA) 438(2):635–968, Jan. 2013
- Associate Editor, Special Issue on Computational Science and Engineering, SIAM Journal on Scientific Computing (SISC), 2007
- Workshop, Conference, and Minisymposium Organization and Reviewing
 - Scientific Committee, SIAM Conference on Applied Linear Algebra, Paris, France, May 13–17, 2024.
 - Co-organizer, ICERM Workshop on Connecting Higher-Order Statistics and Symmetric Tensors, Providence, RI, Jan. 8–12, 2024
 - Senior Program Committee, 35th Annual Conference on Learning Theory (COLT 2022), London, UK, July 2–5, 2022
 - Senior Program Committee, 34th Annual Conference on Learning Theory (COLT 2021), Boulder, CO, August 15–19, 2021
 - Workshop Co-Chair, Randomized Algorithms for Scientific Computing (RASC), Online, Dec. 2–3, 2020 and Jan. 6–7, 2021.
 - Workshop Co-organizer, Rising Stars in Computational and Data Sciences, Online, Oct. 13, 2020
 - Workshop Co-organizer, Rising Stars in Computational and Data Sciences, Austin, TX, Apr. 9–10, 2019
 - Conference Organizing Committee, Diversity Panel Co-organizer, Minisymposium Co-organizer, SIAM Conference of Computational Science & Engineering (CSE19), Spokane, WA, Feb. 25–Mar. 1, 2019
 - Senior Technical Program Committee, KDD 2018, London, UK, Aug. 19–23, 2018
 - Minisymposium Co-organizer, 2018 SIAM Annual Meeting (AN18), Portland, OR, Jul. 9–13, 2018
 - Minisymposium Co-organizer, 2018 Joint Mathematics Meeting (JMM 2018), San Diego, CA, Jan. 11, 2018
 - Panels Committee Member, The International Conference for High Performance Computing, Networking, Storage and Analysis (SC'17), Denver, CO, Nov. 12–17, 2017
 - Workshop Co-organizer, Beyond Convexity: Emerging Challenges in Data Sciences, Casa Matematica Oaxaca (CMO), Mexico, Oct. 22–27, 2017
 - Senior Technical Program Committee, KDD 2017, Halifax, Nova Scotia, Canada, Aug. 13–17, 2017
 - Conference Organizing Committee & Minisymposium Co-organizer, SIAM Annual Meeting (AN17), Pittsburg, PA, Jul. 10–14, 2017
 - Technical Program Committee, IEEE International Parallel & Distributed Processing Symposium (IPDPS 2017), Orlando, FL, May 29 – Jun. 2, 2017
 - Minisymposium Co-organizer, SIAM Computational Science and Engineering (CSE), Atlanta, GA, Feb. 27–Mar. 3, 2017
 - Minisymposium Co-organizer, SIAM Annual Meeting (AN16), Boston, MA, Jul. 11–16, 2016
 - Senior Technical Program Committee, SIAM International Conference on Data Mining (SDM16),

Miami, FL, May 5–7, 2016

- Minisymposium Co-organizer, SIAM Conference on Parallel Programming for Scientific Computing (PP16), Paris, France, Apr. 12–15, 2016
- Technical Posters Committee, 2015 ACM/IEEE International Conference on High Performance Computing, Networking, Storage and Analysis (SC15), Austin, TX, Nov. 15–20, 2015
- Minisymposium Co-organizer (Celebration of the Retirement of Dianne O’Leary), SIAM Conference on Applied Linear Algebra (LA15) Atlanta, Georgia, Oct. 26–30, 2015
- Technical Program Committee, 21st ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD2015), Sydney, Australia, Aug. 10–13, 2015
- Workshop Co-organizer, Mathematics in Data Science: Exploring the Role of the Mathematical Sciences in an Evolving Discipline, The Institute for Computational and Experimental Research in Mathematics (ICERM), Brown University, Providence, RI, Jul. 28–30, 2015
- Minisymposium Co-organizer, SIAM Conference on Computational Science (CSE15), Salt Lake City, UT, Mar. 14–18, 2015
- Senior Technical Program Committee and Best Paper Prize Committee, SIAM International Conference on Data Mining (SDM14), Philadelphia, PA, Apr. 24–26, 2014
- Technical Program Committee, IEEE International Conference on Data Mining (ICDM 2013), Dallas, TX, Dec. 8–11, 2013
- Technical Program Committee, The 19th ACM SIGKDD Conference on Knowledge, Discovery, and Data Mining (KDD 2013), Chicago, IL, Aug. 11–14, 2013
- Minisymposium Co-organizer, SIAM Annual Meeting (AN13), San Diego, CA, July 8–12, 2013
- Technical Program Committee, KDD Workshop on Mining and Learning from Graphs (MLG 2013), Chicago, IL, Aug. 11, 2013
- Technical Program Committee, Social Network and Graph Analysis track, 22nd International World Wide Web Conference (WWW 2013), Rio de Janeiro, Brazil, May 13–17, 2013
- Senior Technical Program Committee, SIAM International Conference on Data Mining (SDM13), Austin, TX, May 2–4, 2013
- Minisymposium Co-organizer, SIAM Conference on Computational Science and Engineering (CSE13), Boston, MA, Feb. 25–Mar. 1, 2013
- Technical Program Committee, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), Bristol, UK, Sep. 24–28, 2012
- Conference Organizing Committee, SIAM Conference on Applied Linear Algebra (LA12), Valencia, Spain, Jun. 18–22, 2012
- Senior Technical Program Committee, SIAM International Conference on Data Mining (SDM12), Anaheim, CA, Apr. 26–28, 2012
- Workshop Technical Program Committee, Ninth Workshop on Mining and Learning with Graphs (MLG 2011), San Diego, CA, Aug. 20–21, 2011
- Industrial Committee, International Congress on Industrial and Applied Mathematics (ICIAM), Vancouver, BC, Canada, Jul. 18–22, 2011
- Technical Program Committee, 2011 SIAM International Conference on Data Mining (SDM11), Mesa, AZ, Apr. 28–30, 2011
- Minisymposium Organizer, SIAM Conference on Computational Science and Engineering, Reno, NV, Feb. 28–Mar. 4, 2011
- Workshop Co-organizer, NIPS Workshop on Tensors, Kernels, and Machine Learning, Whistler, BC, Canada, Dec. 10, 2010
- Conference Organizing Committee, AAAI 2010 Fall Symposium on Manifold Learning and its Applications, Arlington, VA, Nov. 11–13, 2010
- Workshop Program Committee, Workshop on Dynamic Networks and Knowledge Discovery

- (DyNaK 2010), Barcelona, Spain, Sep. 24, 2010
- Steering Committee, Conference on Tensor Decompositions and Applications (TDA 2010), Monopoli, Bari, Italy, Sep. 13–17, 2010
 - Technical Program Committee, ASONAM 2010: The 2010 International Conference on Advances in Social Networks Analysis and Mining, Odense, Denmark, Aug. 9–11, 2010
 - Workshop Program Committee, 2nd Workshop on Large-scale Data Mining: Theory and Applications (LDMTA 2010), Washington, DC, Jul. 25–28, 2010
 - Minisymposium Organizer, 2010 SIAM Annual Meeting, Pittsburgh, PA, Jul. 12–16, 2010
 - Technical Program Committee, 2010 SIAM International Conference on Data Mining, Columbus, OH, Apr. 29–May 1, 2010
 - Program Committee, Workshop on High Performance Analytics — Algorithms, Implementations, and Applications, 2010 SIAM International Conference on Data Mining, Columbus, OH, Apr. 29–May 1, 2010
 - Co-organizer, AIM Workshop on Computational Optimization for Tensor Decompositions, Palo Alto, CA, Mar. 29–Apr. 2, 2010
 - Program Committee, ICDM09 Workshop on Large-scale Data Mining: Theory and Applications (LDMTA2009), Miami, FL, Dec. 6, 2009
 - Invited Minisymposium Organizer, SIAM Conference on Applied Linear Algebra (LA09), Monterey, CA, Oct. 26–29, 2009
 - Program Committee, 23rd IEEE International Parallel and Distributed Processing Symposium (IPDPS2009), Rome, Italy, May 25–29, 2009
 - Co-organizer, IMA Workshop: Career Options for Women in Mathematical Sciences, Institute for Mathematics and Its Applications, Minneapolis, MN, Apr. 2–4, 2009
 - Co-organizer of minisymposium, SIAM Conference on Computational Science and Engineering (CSE09), Miami, FL, Mar. 2–6, 2009
 - Co-organizer, Multi-Manifold Data Modeling and Applications, Institute for Mathematics and Its Applications (IMA), Minneapolis, MN, Oct. 27–30, 2008
 - Co-chair, 2008 SIAM Annual Meeting, San Diego, CA, Jul. 7–11, 2008
 - Program Committee, SIAM International Conference on Data Mining (SDM08), Atlanta, Georgia, Apr. 24–26, 2008
 - Stream Co-organizer, Second Mathematical Programming Society International Conference on Continuous Optimization (ICCOPT II), McMaster University, Hamilton, Ontario, Canada, Aug. 12–17, 2007
 - Co-organizer of two-part Minisymposium, 6th International Congress on Industrial and Applied Mathematics (ICIAM), ETH, Zürich, Switzerland, Jul. 16–20, 2007
 - Co-organizer of Invited SIAG/CSE and SIAG/OPT (joint) Minisymposium, SIAM Annual Meeting, Boston, MA, Jul. 10–14, 2006
 - Program Committee, 2006 SIAM Conference on Data Mining, Hyatt Regency, Bethesda, MD, Apr. 20–22, 2006
 - SIAM Conference on Parallel Processing for Scientific Computing (PP06), San Francisco, CA, Feb. 22–24, 2006
 - Organizing Committee, CSE Education Panel Organizer, SIAM Conference on Computational Science & Engineering, Orlando, FL, Feb. 12–15, 2005
 - Chair of Program Committee, Department of Homeland Security Data Sciences Workshop, Hilton Alexandria Old Town, Alexandria, VA, Sep. 22–24, 2004
 - Invited Special Session Organizer, First International Conference on Continuous Optimization (ICCOPT-I), Rensselaer Polytechnic Institute, Troy, NY, Invited Special Session Organizer, Aug. 2–4, 2004

- Co-organizer, Tensor Decompositions Workshop, American Institute of Mathematics Research Conference Center, Palo Alto, CA, Jul. 19–23, 2004
- Invited Minisymposium Organizer, SIAM Annual Meeting (AN04), Portland, OR, Jul. 12–16, 2004
- DOE Lab Representative (i.e., co-organizer), DOE Multiscale Mathematics Workshop, Arlington, VA, May 3–5, 2004
- Co-organizer, Women of Applied Mathematics: Research and Leadership, University of Maryland at College Park, Oct. 8–10, 2003
- Program Committee, 17th Annual ACM International Conference on Supercomputing (Sponsored by ACM/SIGARCH), San Francisco Bay Area, Jun. 23–26, 2003
- Co-organizer, Sandia CSRI Workshop on Numerical Aspects of Circuit and Device Modeling, Santa Fe, NM, Apr. 3–5, 2002
- Co-organizer, Bay Area Scientific Computing Day, Pleasanton, CA, Mar. 2, 2002
- Technical Papers Committee, Supercomputing (SC02), Baltimore, MD, Nov. 16–22, 2002
- SIAM Special Session Co-organizer, Joint Mathematics Meetings (JMM02), San Diego, CA, Jan. 6–9, 2002
- Minisymposium Organizer, SIAM Annual Meeting (AN01), San Diego, CA, Jul. 9–13, 2001
- Organizing Committee, SIAM Conference on Parallel Processing for Scientific Computing, Portsmouth, VA, Mar. 12–14, 2001
- Co-organizer, Association for Women in Mathematics Workshop, held in conjunction with the 1999 SIAM Annual Meeting, Atlanta, GA, May 12–14, 1998
- Elected and Appointed Offices in Professional Societies and Organizations
 - Founding chair (appointed), SIAM Activity Group on Equity, Diversity, and Inclusion (SIAG/EDI), 2023–2025.
 - Member (elected), SIAM Board of Trustees, 2012–2014, 2015–2017, 2018–2020
 - Chair (elected), SIAM Activity Group on Computational Science & Engineering (SIAG/CSE), 2009–2010
 - Vice Chair (elected), SIAM Activity Group on Computational Science & Engineering (SIAG/CSE), 2007–2008
 - Secretary (elected), SIAM Activity Group on Computational Science & Engineering (SIAG/CSE), 2004–2006
 - Secretary (elected), SIAM Activity Group on Linear Algebra (SIAG/LA), 2001–2003
 - Web Editor and ex officio Executive Committee Member, AWM, 1997–2002
- Committee Work
 - Member, Prize Committee, 2024 SIAM Activity Group on Data Science Career Prize and 2024 SIAM Activity Group on Data Science Early Career Prize, 2023–2024
 - Member, Board of Advisors, Institute for Mathematical and Statistical Innovation (IMSI), 2021–2024
 - Member, External Advisory Board, NSF Institute for Foundational Data Science (IFDS), 2020–2022
 - Member, SIAM Diversity, Equity, and Inclusion (DEI) Committee, 2021
 - Member, SIAM Block Lecture Selection Committee, 2021–2023
 - Member, SIAM Ethics Committee, 2021–2023
 - Member, SIAM Systems Oversight Committee, 2006–2015, 2021–2023
 - Member, ACM-IEEE CS George Michael Memorial HPC Fellowships Committee, 2020–2023
 - Member, INFORMS Optimization Society Khachiyan Prize Committee, 2020

- Member, John von Neumann Fellowship Selection Committee, Sandia National Labs, 2019–2020
- Member, External Advisory Board, T-TRIPODS, Tufts University, 2019–2022
- Chair, SIAM Journal Committee, 2016–2018
- Member, SIAM Journal Committee, 2014–2015
- Member, SIAM New Initiatives Committee, 2013–2015
- Member, SIAG/CSE Nomination Committee, 2014, 2016
- Member, Data Mining Technical Committee (DMTC) of the IEEE Computational Intelligence Society (CIS), 2010–2013
- Chair, Nominating Committee, SIAM Activity Group for Computational Science and Engineering (SIAG/CSE), 2010
- Member, Human Resources Board, American Institute of Mathematics, 2006–2009
- Member, SIAM Nomination Committee, 2008–2009
- Prize Committee Member, Bavarian Graduate School of Computational Engineering (BCGE) Student Prize, SIAM CS&E Conference, 2007
- Member (SIAM representative), Joint Committee on Women, 2004–2006
- Member, SIAM Web Committee, 2002–2013
- Member, AWM Strategic Planning Committee, 2003–2004
- Member (AWM representative), SIAM Kovalevsky Prize Selection Committee, 2002–2003
- Chairperson, AWM Student Chapter Creation Task Force, 2001–2002
- Thesis Committees
 - Jiajia Li, Georgia Tech, 2018 (Ph.D. Thesis Committee Member)
 - Alex Gorodetsky, MIT, 2016 (Ph.D. Reader)
 - Martin Schatz, U. Texas, Austin, 2015 (Ph.D. Co-Advisor)
- Creator/Editor, BANANA (Bay Area Numerical Analysis Networking Alliance) Email List, 2000–2012
- Editor, NA Digest, 2005–2010
- Chairperson, University of Maryland Women in Mathematics (WIM), 1993–1997
- Student Representative, University of Maryland Graduate Committee on Applied Math, 1995–1996
- President, Pi Mu Epsilon Honor Society, University of Maryland Baltimore County, 1991–1992

— Non-Technical and Community Talks

- Panelist, Student/Early Career Panel, SIAM Conference on Mathematics of Data Science (MDS22), San Diego, CA, Sep. 26–30, 2022
- Keynote Speaker, Rising Stars in Computational and Data Sciences, Austin, TX, Apr. 9–10, 2019
- Minisymposium Speaker, CSE Education and Workforce, SIAM Conference of Computational Science & Engineering (CSE19), Spokane, WA, Feb. 25–Mar. 1, 2019
- Invited Participant, SIAM ADVANCE, Philadelphia, PA, Apr. 27–28, 2018 (*strategic planning for the SIAM professional society, only 25 people invited*)
- Invited Speaker, Amador Valley High School Engineering Club, Pleasanton, CA, Feb. 14, 2017
- Invited Panelist, *Professional Development Evening: Landing Your Dream Job*, SIAM Annual Meeting (AN16), Boston, MA, Jul. 11–16, 2016
- Invited Panelist, *Careers in Business, Industry and Government*, SIAM Annual Meeting (AN16), Boston, MA, Jul. 11–16, 2016
- Minisymposium Talk, *Professional Use of Social Media*, SIAM Annual Meeting (AN13), San Diego, CA, Jul. 8–12, 2013

- Plenary Panelist, *Student Careers Panel*, SIAM Computational Science & Engineering (CSE13), Boston, MA, Feb. 25–Mar. 1, 2013
- Invited Panelist, *Promotion to the Next Technical Step*, CAPP Advanced Mentoring Workshop, San Mateo, CA, Nov. 16–17, 2012
- Invited Panelist, *Big Data Panel*, 2012 SIAM Annual Meeting, Minneapolis, MN, Jul. 9–13, 2012
- Invited Panelist, *Professional Development Evening*, 2012 SIAM Annual Meeting, Minneapolis, MN, Jul. 9–13, 2012
- Invited Panelist, *Women in the Defense Industry*, Grace Hopper Celebration of Women in Computing, Portland, OR, Nov. 9–11, 2011
- Invited Panelist, *Opportunities in High-Performance Computing at Department of Energy Laboratories*, Richard Tapia Celebration of Diversity in Computing, San Francisco, CA, Apr. 3–5, 2011
- Invited Panelist, *Negotiation and Self-Promotion Panel*, Women in Mathematics Symposium, Institute for Pure and Applied Mathematics (IPAM), Los Angeles, CA, Feb. 24–26, 2011
- Invited Panelist, *Professional Development Evening*, SIAM Conference on Computational Science and Engineering (CSE09), Miami, FL, Mar. 2–6, 2009
- Invited Panelist, *The Next 50 Years*, Stanford 50: State of the Art and Future Directions of Computational Mathematics and Numerical Computing, Stanford University, Mar. 29–31, 2007
- Invited Panelist, *Industry Panel*, SIAM Annual Meeting (AN06), Boston, MA, Jul. 10–14, 2006
- *The What, Why, Who, Where, and How of a Successful Career*, University of Maryland, Apr. 29, 2005
- Keynote Address (with Dianne O’Leary), *Women of Applied Mathematics: Research and Leadership*, Workshop on Women in Applied Mathematics: Research and Leadership, University of Maryland, College Park, MD, Oct. 8–10, 2003
- *On the Theoretical and Practical Importance of Generating Set Search: A Class of Direct Search Methods for Optimization*, a talk aimed at undergraduates, Cal State Hayward, Apr. 18, 2003
- Invited Panelist, *Launching a Career in Mathematics*, AWM Workshop at the Joint Mathematics Meetings, New Orleans, LA, Jan. 10–13, 2001
- Plenary Talk, *Scientific Computing: Where Mathematics and Computer Science Meet*, 18th Annual Mathematics Symposium, Western Kentucky University, Bowling Green, Kentucky, Nov. 20–21, 1998
- *Parallel Computing*, Sharing Adventures in Engineering and Science (SHADES): An Interactive Colloquium in Science and Engineering for 6th and 7th Grade Girls and Teachers, Oak Ridge, TN, Mar. 7, 1998

— Videos, Articles, Blog Postings, Etc.

- Video from seminar in Chemometrics and Machine Learning in Copenhagen, Jun. 26, 2023
- Featured in Making Math a ‘Hero’ by Leslie Miller, posted Jun. 2023
- Featured in Visiting Researcher: Golden State to the Lone Star State by Rebecca Riley, Jun. 5, 2023
- Quoted in Better Algorithms through Faster Math (by Samuel Greengard), *Communications of the ACM (CACM)*, Vol. 66, No. 6, Jun. 2023
- Featured in Panel Discussion at MDS22 Prepares Students and Early-Career Researchers for the Workforce (by Lina Sorg), *SIAM News*, Nov. 1, 2022
- Featured in Panel at 2022 Women in Data Science Worldwide Conference Offers Career Insights (by Jillian Kunze), *SIAM News*, May 5, 2022
- Featured in SIAM Celebrates National Volunteer Month, *SIAM News*, Apr. 8, 2022
- Videos from Women in Data Science (WiDS) 2022 invited Technical Vision Talk and Career Panel, Mar. 2022
- Featured in Celebrating Women in Statistics and Data Science, *AMSTAT News*, Mar. 1, 2022

- Video on Distinguished Lecture for Texas A&M University Institute for Data Science: Tensor Moments of Gaussian Mixture Models: Theory and Applications, Jan. 2022
- Videos from my lectures at the MSRI Summer Graduate School on Mathematics of Big Data: Sketching and (Multi-) Linear Algebra: Part 1, Part 2, Part 3, Part 4, Jun. 2021
- Featured in ACM Member News, Innovations in Algorithms for Tensor Decompositions (by John Delancy), *Communications of the ACM*, 65(1), p. 17, Jan. 2021
- Featured in ‘Magical’ mathematics unlocks engineering honor for Sandia scientist (by Michael Langley), *Sandia Labs News Release*, Oct. 9, 2020
- Video on One World Mathematics of Information, Data, and Signals Seminar: Practical Leverage-Based Sampling for Low-Rank Tensor Decomposition, Jul. 23, 2020
- Video on E-NLA Online Seminar on Numerical Linear Algebra: Practical Leverage-Based Sampling for Low-Rank Tensor Decomposition, Jul. 1, 2020
- Featured in Tammy Kolda named ACM Fellow (by Michael Ellis Langley), *Sandia Labs News*, Feb. 27, 2020
- Video of keynote at SIAM Conference on Applied Algebraic Geometry 2019: Efficient Computation of Low-Rank Approximations to Higher-Order Moments, Jul. 9, 2019
- Featured in New data journal gets Sandia editor, *Lab Accomplishments*, Sandia National Laboratories, Mar. 2019, p.19
- Featured in Tamara Kolda named editor-in-chief of new SIAM Journal on Mathematics of Data Science (by Michael Padilla), *Sandia Lab News*, Jan. 17, 2019
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