

Dr. Michael H Dinitz

Department of Computer Science
Johns Hopkins University
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- WORK EXPERIENCE
- ◇ **Johns Hopkins University, Dept of Computer Science.** Baltimore, MD.
 - Assistant Professor January 2014 - present
 - Research Assistant Professor August 2013 - January 2014
 - ◇ **Weizmann Institute of Science.** Rehovot, Israel.
 - Postdoctoral Fellow August 2010 - December 2014
 - ◇ **Alcatel-Lucent Bell Labs.** Murray Hill, NJ.
 - Research Intern May 2009 - August 2009
 - Research Intern May 2008 - August 2008
 - ◇ **Microsoft Research-Silicon Valley.** Mountain View, CA.
 - Research Intern May 2007 - August 2007
- EDUCATION
- ◇ **Carnegie Mellon University,** Pittsburgh, PA August 2005 - August 2010
 - Ph.D. in Computer Science
 - Thesis: *Algorithms and Models for Problems in Networking*
 - Advisor: Anupam Gupta
 - ◇ **Princeton University,** Princeton, NJ August 2001 - June 2005
 - A.B. *summa cum laude* in Computer Science
 - Certificate in Applied and Computational Mathematics
- AWARDS AND HONORS
- ◇ Professor Joel Dean Excellence in Teaching Award. Johns Hopkins University Computer Science Department. 2017.
 - ◇ Best paper award, ICDCS 2017.
 - ◇ Invitation to Special Issue for Top Papers: DISC 2015, ESA 2015, APPROX 2014.
 - ◇ National Science Foundation Graduate Research Fellowship. September 2005 - September 2008.
 - ◇ ARCS (Achievement Rewards for College Scientists) Scholarship. 2005.
 - ◇ Shapiro Prize for Academic Excellence. 2003
- PUBLICATIONS
- Conference Papers (Peer Reviewed)**
1. Greg Bodwin, **Michael Dinitz**, Merav Parter, and Virginia Vassilevska Williams. *Optimal Vertex Fault Tolerant Spanners (for fixed stretch)*. In Proceedings of the 29th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2018)
 2. **Michael Dinitz** and Yasamin Nazari. *Distributed Distance-Bounded Network Design Through Distributed Convex Programming*. In Proceedings of the The 21st International Conference on Principles of Distributed Systems (OPODIS 2017).
 3. Amy Babay, Emily Wagner, **Michael Dinitz**, and Yair Amir. *Timely, Reliable, and Cost-Effective Internet Transport Service using Dissemination Graphs*. In Proceedings of the 37th IEEE International Conference on Distributed Computing Systems (ICDCS 2017). **Best Paper Award**

4. **Michael Dinitz**, Jeremy Fineman, Seth Gilbert, and Calvin Newport. *Load Balancing with Bounded Convergence in Dynamic Networks*. In Proceedings of the 36th IEEE Conference on Computer Communications (INFOCOM 2017).
5. **Michael Dinitz** and Zeyu Zhang. *Approximating Approximate Distance Oracles*. In Proceedings of the 8th Innovations in Theoretical Computer Science Conference (ITCS 2017).
6. Eden Chlamtáč, **Michael Dinitz**, and Yury Makarychev. *Minimizing the Union: Tight Approximations for Small Set Bipartite Vertex Expansion*. In Proceedings of the 28th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2017).
7. Eden Chlamtáč, **Michael Dinitz**, Guy Kortsarz, and Bundit Laekhanukit. *Approximating Spanners and Directed Steiner Forest: Upper and Lower Bounds*. In Proceedings of the 28th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2017).
8. Asaf Valadarsky, Gal Shahaf, **Michael Dinitz**, and Michael Schapira. *Xpander: Towards Optimal-Performance Next-Generation Datacenters*. In Proceedings of the 12th International Conference on Emerging Networking Experiments and Technologies (CoNEXT 2016).
9. Eden Chlamtáč, **Michael Dinitz**, Christian Konrad, Guy Kortsarz, and George Rabanca. *The Densest k -Subhypergraph Problem*. In Proceedings of the 19th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2016).
10. Amitabh Basu, **Michael Dinitz**, and Xin Li. *Computing Approximate PSD Factorizations*. In Proceedings of the 19th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2016).
11. **Michael Dinitz** and Zeyu Zhang. *Approximating Low-Stretch Spanners*. In Proceedings of the 27th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2016).
12. **Michael Dinitz**, Jeremy Fineman, Seth Gilbert, and Calvin Newport. *Smoothed Analysis of Dynamic Networks*. In Proceedings of the 29th International Symposium on Distributed Computing (DISC 2015).
13. **Michael Dinitz**, Michael Schapira, and Asaf Valadarsky. *Explicit Expanding Expanders*. In Proceedings of the 23rd European Symposium on Algorithms (ESA 2015).
14. **Michael Dinitz**, Robert Krauthgamer, and Tal Wagner. *Towards Resistance Sparsifiers*. In Proceedings of the 19th International Workshop on Randomization and Computation (RANDOM 2015).
15. Eden Chlamtáč and **Michael Dinitz**. *Lowest Degree k -Spanner: Approximation and Hardness*. In Proceedings of the 17th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2014).
16. **Michael Dinitz**, Guy Kortsarz, and Zeev Nutov. *Improved Approximation Algorithm for Steiner k -Forest with Nearly Uniform Weights*. In Proceedings of the 17th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2014).
17. **Michael Dinitz** and Merav Parter. *Braess's Paradox in Wireless Networks: The Danger of Improved Technology*. In Proceedings of the 27th International Symposium on Distributed Computing (DISC 2013).
18. **Michael Dinitz** and Anupam Gupta. *Packing Interdiction and Partial Covering Problems*. In Proceedings of the 16th Conference on Integer Programming and Combinatorial Optimization (IPCO 2013).

19. **Michael Dinitz** and Guy Kortsarz. *Matroid Secretary for Regular and Decomposable Matroids*. In Proceedings of the 24th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2013).
20. Eden Chlamtáč, **Michael Dinitz**, and Robert Krauthgamer. *Everywhere-Sparse Spanners via Dense Subgraphs*. In Proceedings of the 53rd Annual Symposium on Foundations of Computer Science (FOCS 2012).
21. **Michael Dinitz** and Gordon Wilfong. *Constrained Connectivity and iBGP*. In Proceedings of the 15th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2012).
22. **Michael Dinitz**, Guy Kortsarz, and Ran Raz. *Label Cover Instances with Large Girth and the Hardness of Approximating Basic k -Spanner*. In Proceedings of the 39th International Colloquium on Automata, Languages and Programming (ICALP 2012).
23. Atish Das Sarma, **Michael Dinitz**, and Gopal Pandurangan. *Efficient Computation of Distance Sketches in Distributed Networks*. In Proceedings of the 24th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA 2012).
24. **Michael Dinitz** and Robert Krauthgamer. *Fault-Tolerant Spanners: Better and Simpler*. In Proceedings of the 30th Annual ACM Symposium on Principles of Distributed Computing (PODC 2011).
25. **Michael Dinitz** and Robert Krauthgamer. *Directed Spanners via Flow-Based Linear Programs*. In Proceedings of the 43rd Annual ACM Symposium on Theory of Computing (STOC 2011).
26. **Michael Dinitz**. *Distributed Algorithms for Approximating Wireless Network Capacity*. In Proceedings of the 29th IEEE Conference on Computer Communications (INFOCOM 2010).
27. Matthew Andrews and **Michael Dinitz**. *Maximizing Capacity in Arbitrary Wireless Networks in the SINR Model: Complexity and Game Theory*. In Proceedings of the 28th IEEE Conference on Computer Communications (INFOCOM 2009).
28. Moshe Babaioff, **Michael Dinitz**, Anupam Gupta, Nicole Immorlica, and Kunal Talwar. *Secretary Problems: Weights and Discounts*. In Proceedings of the Twentieth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2009).
29. **Michael Dinitz**. *Online, Dynamic, and Distributed Embeddings of Approximate Ultrametrics*. In Proceedings of the 22nd International Symposium on Distributed Computing (DISC 2008).
30. **Michael Dinitz**. *Compact Routing with Slack*. In Proceedings of the Twenty-Sixth Annual ACM Symposium on Principles of Distributed Computing (PODC 2007).
31. T.H.-Hubert Chan, **Michael Dinitz**, and Anupam Gupta. *Spanners With Slack*. In Proceedings of the 14th Annual European Symposium on Algorithms (ESA 2006).

Journal Papers (Peer Reviewed)

1. **Michael Dinitz**, Guy Kortsarz, and Zeev Nutov. *Improved Approximation Algorithm for Steiner k -Forest with Nearly Uniform Weights*. ACM Transactions on Algorithms. 13(3): 40:1-40:16 (2017).
2. **Michael Dinitz**, Michael Schapira, and Asaf Valadarsky. *Explicit Expanding Expanders*. Algorithmica. 78(4), 2017, 1225-1245.
3. Eden Chlamtáč and **Michael Dinitz**. *Lowest Degree k -Spanner: Approximation and Hardness*. Theory of Computing. 12(15), 2016, 1-29.
4. **Michael Dinitz**, Guy Kortsarz, and Ran Raz. *Label Cover Instances with Large Girth and the Hardness of Approximating Basic k -Spanner*. ACM Transactions on Algorithms. 12(2), 2016.

5. Atish Das Sarma, **Michael Dinitz**, and Gopal Pandurangan. *Efficient Computation of Distance Sketches in Distributed Networks*. Distributed Computing. 28(5), 2015, 309-320.
6. **Michael Dinitz** and Guy Kortsarz. *Matroid Secretary for Regular and Decomposable Matroids*. SIAM Journal on Computing. 43(5), 2014, 1807-1830.
7. **Michael Dinitz**, Jonah Gold, Thomas Sharkey, and Lorenzo Traldi. *Graphical Representations of Clutters*. Ars Combinatoria. 94 (2010), pp 303-320.
8. **Michael Dinitz**. *Full Rank Tilings of Finite Abelian Groups*. SIAM J. Discret. Math. 20, 1 (Jan. 2006), 160-170.
9. **Michael Dinitz** and Jeffrey Dinitz. *Enumeration of Balanced Tournament Designs on 10 Points*. Journal of Combinatorial Mathematics and Combinatorial Computing, **52** (2005), 51-63.

Workshop Papers

1. Asaf Valadarsky, **Michael Dinitz**, and Michael Schapira. *Xpander: Unveiling the Secrets of High-Performance Datacenters*. In the Fourteenth ACM Workshop on Hot Topics in Networks (HotNets 2015).

Surveys

1. **Michael Dinitz**. Recent advances on the matroid secretary problem. *SIGACT News* 44, 2 (June 2013), 126-142

FUNDING

- ◇ PI, NSF award 1535887. *AitF: EXPL: Wide-area Dissemination under Strict Timeliness, Reliability, and Cost Constraints*. September 2015 - August 2017. \$400,000
- ◇ PI, NSF award 1464239. *CRII: AF: New Approaches to Graph Spanners*. February 2015 - January 2017. \$185,000
- ◇ National Science Foundation Graduate Research Fellowship (September 2005 - September 2008)
- ◇ ARCS (Achievement Rewards for College Scientists) Scholarship: \$15000

RESEARCH ADVISING

Ph.D. Thesis Advisor:

1. Zeyu Zhang. Ph.D. candidate in Computer Science, JHU. 2014-present.
2. Yasamin Nazari. Ph.D. candidate in Computer Science, JHU. 2016-present.

Visiting Ph.D. Mentor:

1. Yuchao Li. Ph.D. candidate in Mathematics, Xi'an Jiaotong University, China.
Visit period: August 2017 - August 2018.
Project Title: *Complexity and algorithms for the minimum weight connected vertex cover problem*.

Ph.D. Thesis Committee Member (non-advisees; * indicates chair of committee):

1. Joseph Paat*, Ph.D. in Applied Mathematics and Statistics, JHU.
Thesis Title: *On the Development of Cut-Generating Functions*.
Graduation Date: December 2016

Ph.D. Qualifying Project Supervisor:

1. Zeyu Zhang. *Approximating Low-Stretch Spanners*. 2017.
2. Amy Babay. *Approximation Algorithms in Random Graphs for Dissemination Graph Construction and Stochastic Vaccination Problems*. 2017.

TEACHING

- ◇ 601.436/636 Algorithmic Game Theory. Spring 2018
- ◇ 601.433/633 Introduction to Algorithms. Fall 2017

- ◇ 600.363/463 Introduction to Algorithms / Algorithms I. Fall 2014, Fall 2015, Fall 2016
- ◇ 600.473/673 Algorithmic Game Theory. Spring 2016
- ◇ 600.469/669 Approximation Algorithms. Spring 2015, Spring 2017
- ◇ 600.770 Selected Topics in Algorithms for Metric Spaces. Spring 2014

PROFESSIONAL
SERVICE

Workshop Organization:

- Joint STOC-SoCG Workshop on Spanners: Graphs and Geometry (June 18, 2016)
- NSF Algorithms in the Field (AiTF) Workshop on Algorithms for Software-Defined Networking (June 2-3, 2016)
- Capital Area Theory Day 2016 (May 26, 2016)

Program Committees:

- OPODIS 2018: 22nd International Conference on Principles of Distributed Systems.
- APPROX 2015: 18th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems.
- SPAA 2013: 25th ACM Symposium on Parallelism in Algorithms and Architectures.
- CATS 2013: 19th Edition of Computing: the Australasian Theory Symposium.

Journal Editing:

- Associate Editor, ACM Transactions on Algorithms (2018 - present)
- Guest Editor, ACM Transactions on Parallel Computing, Special Issue on Selected Papers from SPAA 2013.

Conference Reviewing

1. ACM Symposium on Theory of Computing (STOC)
2. IEEE Symposium on Foundations of Computer Science (FOCS)
3. ACM-SIAM Symposium on Discrete Algorithms (SODA)
4. ACM Symposium on Principles of Distributed Computing (PODC)
5. International Symposium on Distributed Computing (DISC)
6. ACM Symposium on Parallelism in Algorithms and Architectures (SPAA)
7. European Symposia on Algorithms (ESA)
8. International Colloquium on Automata, Languages, and Programming (ICALP)
9. Innovations in Theoretical Computer Science (ITCS)
10. International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX)
11. International Workshop on Randomization and Computation (RANDOM)
12. Symposium on Theoretical Aspects of Computer Science (STACS)
13. Algorithms and Data Structures Symposium (WADS)
14. Scandinavian Symposium and Workshops on Algorithm Theory (SWAT)
15. International Computing and Combinatorics Conference (COCOON)
16. IEEE International Conference on Computer Communications (INFOCOM)
17. IEEE International Parallel & Distributed Processing Symposium (IPDPS)
18. International Symposium on Algorithms and Experiments for Wireless Sensor Networks (ALGOSENSORS)
19. Conference on Information Systems and Sciences (CISS)

Journal Referee

1. Ad Hoc Networks
2. Algorithmica
3. Computational Geometry: Theory and Applications
4. Computer Networks
5. Discrete and Computational Geometry
6. Distributed Computing
7. Journal of the ACM
8. Journal of Combinatorial Optimization
9. Journal of Computer and System Sciences
10. Journal of Discrete Algorithms
11. Information Processing Letters
12. International Journal of Algebra and Computation
13. International Journal of Foundations of Computer Science
14. Mathematics of Operations Research
15. SIAM Journal on Computing
16. SIAM Journal on Discrete Mathematics
17. Theoretical Computer Science
18. Transactions on Algorithms
19. Transactions on Mobile Computing
20. Transactions on Networking
21. Transactions on Parallel and Distributed Systems
22. Transactions on Vehicular Technologies
23. Transactions on Wireless Computing

Grant Reviewing:

- NSF Panelist (2015, 2016)
- FONDECYT grant competition, Chilean National Science and Technology Commission (CONICYT - Chile).
- NSERC Discovery Grants (Canada)
- US-Israel Binational Science Foundation (BSF)

UNIVERSITY
SERVICE

- ◇ Diversity Champion for the JHU Computer Science Department (2017-present). Responsible for facilitating culture transformation around issues of equity and inclusion. Coordinated between the CS department and the Homewood Council on Inclusive Excellence.
- ◇ Chair, Computer Science Committee on Diversity and Inclusion (2018 - present).
- ◇ Committee Member: Faculty Hiring (2015-2018), Undergraduate and Graduate Awards (2014-2015).
- ◇ Co-Organizer, Johns Hopkins Theory Seminar (Fall 2014 - present).

Graduate Board Oral Exam Committee Member:

1. Amy Babay (Ph.D. candidate in Computer Science, JHU, 2017)
2. Gaoran Yu (Ph.D. candidate in Applied Mathematics and Statistics, JHU, 2017)
3. Tim Vieira (Ph.D. candidate in Computer Science, JHU, 2017)
4. Zeyu Zhang (Ph.D. candidate in Computer Science, JHU, 2017)
5. Alexander Rozenshteyn (Ph.D. candidate in Computer Science, JHU, 2016)

6. Joseph Paat (Ph.D. candidate in Applied Mathematics and Statistics, JHU, 2015)
7. Lin (Forrest) Yang (Ph.D. candidate in Computer Science, JHU, 2015)
8. Daniel Obenshain (Ph.D. candidate in Computer Science, JHU, 2014)

INVITED
TALKS

- ◇ March 6, 2018: “Fast and Reliable Internet Transport using Dissemination Graphs (The Shallow-Light Steiner Network Problem)”. Dagstuhl Seminar on Scheduling. Wadern, Germany.
- ◇ November 15, 2017: “Approximating Spanners and Distance Oracles”. Banff International Research Station Workshop on Approximation Algorithms and the Hardness of Approximation. Banff, Canada.
- ◇ June 5, 2017: “Explicit Expanding Expanders as Datacenter Topologies”. DIMACS Workshop on Algorithms for Data Center Networks. Piscataway, NJ.
- ◇ March 30, 2017: “Wide-area Dissemination under Strict Timeliness, Reliability, and Cost Constraints”. NSF Algorithms in the Field PI Meeting. Arlington, VA.
- ◇ July 6, 2016: “Approximating Low-Stretch Spanners and Distance Oracles”. 8th Workshop on Flexible Network Design. Amsterdam, The Netherlands.
- ◇ June 18, 2016: “Approximating Spanners”. Joint STOC-SoCG Workshop on Spanners: Graphs and Geometry. Cambridge, MA.
- ◇ January 8, 2016: “Towards Resistance Sparsifiers.” Sublinear Algorithms Workshop. Johns Hopkins University, Baltimore, MD.
- ◇ July 13, 2015: “Packing Interdiction and Partial Covering Problems.” 22nd International Symposium on Mathematical Programming (ISMP 2015). Pittsburgh, PA.
- ◇ June 24, 2015: “Approximating Graph Spanners.” Theory Seminar. Hebrew University. Jerusalem, Israel.
- ◇ June 22, 2015: “Smoothed Analysis of Dynamic Networks.” Foundations of Computer Science Seminar. Weizmann Institute of Science. Rehovot, Israel.
- ◇ June 16, 2015: “Smoothed Analysis of Dynamic Networks.” 2nd Networking Summer Workshop. Hebrew University. Jerusalem, Israel.
- ◇ October 10, 2014: “Explicit Expanding Expanders.” Maryland Theory Day. University of Maryland. College Park, MD.
- ◇ July 31, 2014: “Approximating Graph Spanners.” Seventh Workshop on Flexible Network Design. Lugano, Switzerland.
- ◇ May 18, 2014: “Label Cover Instances with Large Girth and the Hardness of Approximating Spanners”. Capital Area Theory Seminar, University of Maryland. College Park, MD.
- ◇ March 8, 2014: “Matroid Secretary for Regular and Decomposable Matroids”. University of Pennsylvania Theory Seminar. Philadelphia, PA.
- ◇ January 29, 2014: “Braess’s Paradox in Wireless Networks: The Danger of Improved Technology”. Dagstuhl Seminar 14051: Algorithms for Wireless Communication. Wadern, Germany.
- ◇ November 18, 2013: “Matroid Secretary for Regular and Decomposable Matroids”. Tel Aviv University Algorithms Seminar. Tel Aviv, Israel.
- ◇ June 5, 2013: “Matroid Secretary for Regular and Decomposable Matroids”. Technion CS Theory Seminar. Haifa, Israel.
- ◇ May 8, 2013: “Matroid Secretary for Regular and Decomposable Matroids”. Hebrew University CS Theory Seminar. Jerusalem, Israel.
- ◇ March 14, 2013: “Approximating Spanners via Convex Relaxations”. Oregon State University. Corvallis, OR.

- ◇ March 11, 2013: “Approximating Spanners via Convex Relaxations”. Lehman College. Bronx, NY.
- ◇ March 8, 2013: “Approximating Spanners via Convex Relaxations”. University of California Merced. Merced, CA.
- ◇ March 5, 2013: “Approximating Spanners via Convex Relaxations”. Johns Hopkins University. Baltimore, MD.
- ◇ February 28, 2013: “Approximating Spanners via Convex Relaxations”. University of Massachusetts Amherst. Amherst, MA.
- ◇ February 25, 2013: “Approximating Spanners via Convex Relaxations”. University of Waterloo. Waterloo, Ontario, Canada.
- ◇ February 2, 2013: “Approximating Spanners via Convex Relaxations”. Colorado School of Mines. Golden, CO.
- ◇ February 19, 2013: “Approximating Spanners via Convex Relaxations”. Ohio State University. Columbus, OH.
- ◇ February 8, 2013: “Approximating Spanners via Convex Relaxations”. Florida State University. Tallahassee, FL.
- ◇ November 14, 2012: “Label Cover Instances with Large Girth and the Hardness of Approximating Basic k -Spanner”. Ben Gurion University Theory Seminar. Beersheva, Israel.
- ◇ June 29, 2012: “Everywhere-Sparse Spanners via Dense Subgraphs”. Carnegie Mellon University Theory Seminar. Pittsburgh, PA.
- ◇ May 24, 2012: “Everywhere-Sparse Spanners via Dense Subgraphs”. Bar Ilan University Computer Science Seminar. Ramat Gan, Israel.
- ◇ April 4, 2012: “Approximation Algorithms for Graph Spanners”. University of Haifa Computer Science Colloquium. Haifa, Israel.
- ◇ March 26, 2012: “Network Design Problems via Convex Relaxations”. Google Research. New York, NY.
- ◇ March 21, 2012: “Network Design Problems via Convex Relaxations”. University of Connecticut. Storrs, CT.
- ◇ January 13, 2012: “Network Design Problems via Convex Relaxations”. Alcatel-Lucent Bell Labs. Murray Hill, NJ.
- ◇ September 13, 2011: “Fault-Tolerant Spanners: Better and Simpler”. Warwick-Weizmann Workshop. Coventry, England.
- ◇ June 1, 2011: “Directed Spanners via Flow-Based Linear Programs.” Technion Theory Seminar. Haifa, Israel.
- ◇ April 6, 2011: “Directed Spanners via Flow-Based Linear Programs.” Hebrew University CS Theory Seminar. Jerusalem, Israel.
- ◇ April 5, 2011: “Directed and Fault-Tolerant Spanners.” Ben Gurion University Computer Science Colloquium. Beersheva, Israel.
- ◇ March 14, 2011: “Directed Spanners via Flow-Based Linear Programs.” Tel Aviv University Algorithms Seminar. Tel Aviv, Israel.
- ◇ December 8, 2010: “Directed Spanners via Flow-Based Linear Programs.” Weizmann-Warwick Meeting 2010. Weizmann Institute of Science. Rehovot, Israel.
- ◇ February 2, 2010: “Approximating Wireless Network Capacity”. Los Alamos National Lab. Los Alamos, New Mexico.
- ◇ January 20, 2010: “Approximating Wireless Capacity in the Physical Model”. University of Vermont. Burlington, Vermont.

- ◇ January 13, 2010: “Wireless Network Capacity in the Physical Model”. West Virginia University. Morgantown, West Virginia.
- ◇ August 24, 2009: “Wireless Network Capacity in the Physical Model”. International Symposium on Mathematical Programming (ISMP) 2009. Chicago, Illinois.
- ◇ March 27, 2009: “Approximating Wireless Capacity in the Physical Model”. University of Michigan. Ann Arbor, Michigan
- ◇ June 14, 2008: “Secretary Problems: Weights and Discounts”. Alcatel-Lucent Bell Labs. Murray Hill, NJ.
- ◇ October 6, 2006: “Spanners with Slack”. Workshop on Flexible Network Design. Bertinoro, Italy.
- ◇ September 1, 2004: “Full Rank Tilings of Finite Abelian Groups”. University of Vermont. Burlington, Vermont.

CITIZENSHIP United States of America

REFERENCES Available upon request