

# Matthew P. Johnson

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## Research Interests

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Applications of algorithms, optimization, and mathematical programming, including guaranteed approximations and algorithmic game theory, to real-world and/or beautiful problems.

Application areas include: energy and smart grids, security, networking, sensor networks.

## Education

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<b>The City University of New York</b> <i>Ph.D. in Computer Science</i> Thesis: “Resource Allocation Under Constraints” (advisor: Amotz Bar-Noy)	New York, NY 2005–2010
<b>Columbia University</b> <i>M.S. in Computer Science</i>	New York, NY 2001–2002
<b>Columbia University</b> <i>B.S. in Computer Science</i>	New York, NY 1998–2001
<b>Lawrence University</b> <i>B.A. in Philosophy and Mathematics (double major)</i>	Appleton, WI 1995–1998

## Positions

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<b>Dept. of Math and Computer Science, Lehman College, CUNY</b> <i>Assistant Professor</i>	Bronx, NY August 2013–present
<b>Ph.D. Program in Computer Science, The Graduate Center, CUNY</b> <i>Member of the Doctoral Faculty</i>	New York, NY December 2013–present
<b>EE Dept., University of California, Los Angeles</b> <i>Postdoctoral Researcher (host: Mani Srivastava)</i>	Los Angeles, CA April 2012–May, 2013
<b>CS Dept., University of Southern California</b> <i>Visiting Researcher</i>	Los Angeles, CA October 2011–March 2012
<b>Weizmann Institute</b> <i>Visiting Researcher (host: David Peleg)</i>	Rehovot, Israel August 2011
<b>CSE Dept., Pennsylvania State University</b> <i>Postdoctoral Researcher (host: Tom La Porta)</i> (based at Raytheon BBN Technologies)	Cambridge, MA September 2010–October 2011
<b>Los Alamos National Laboratory</b> <i>Visiting Researcher</i>	Los Alamos, NM Summer 2010
<b>US Army Research Laboratory</b> <i>Research Intern</i>	Adelphi, MD Summers 2008 and 2009

<b>IBM T.J. Watson Research Center</b> <i>Research Intern</i>	Hawthorne, NY Summer 2007
<b>CS Ph.D. Program, City University of New York</b> <i>Research Assistant</i>	New York, NY Fall 2005–Summer 2010
<b>City College of New York, CS Department</b> <i>Adjunct Lecturer</i>	New York, NY 2005–2006
<b>NYU, Stern School of Business, IOMS Department</b> <i>Adjunct Assistant Professor</i>	New York, NY 2004–2008
<b>CUNY Institute for Software Development &amp; Design</b> <i>Instructor</i>	New York, NY 2004–2005
<b>Columbia University, CS Department</b> <i>Instructor</i>	New York, NY 2002–2004

## Grants & Honors

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**Total external funding (personal share) since 2013: \$338,100**

**Total internal funding (personal share) since 2013: \$140,000**

- CUNY Junior Faculty Research Award in Science and Engineering (sponsored by the Sloan Foundation), \$50,000, 2016
- Travel award for my students to attend FWCG, \$700, 2015
- NSF grant “INSPIRE: Optimization Algorithms for Regional Thermoelectric Power Generation with Nonlinear Interference” (CCF-1547205), \$316,000, 2015-2018
- Travel award for Mathematics in Data Science workshop, Institute for Computational and Experimental Research in Mathematics, Brown University \$600, 2015
- CUNY ASRC Joint Seed Program Grant, \$10,000, 2015-2016
- PSC-CUNY Research Award 68818-00 46, \$6,000, 2015–2016
- Travel award for NSF CISE CAREER Proposal Writing Workshop, \$800, 2015
- Research in the Classroom Idea Grant, \$7,500, 2014–2015 (acceptance rate: 6/73)
- CUNY Collaborative Incentive Research Grant (CIRG 21) 2153 (with co-PI Felisa Vásquez-Abad), \$30,000, 2014–2015
- PSC-CUNY Research Award 67665-00 45, \$6,000, 2014–2015
- NSF REU supplement to grant DUE-1060598, \$20,000, 2013-2014
- Startup funding, Lehman College, \$50,000, 2013-2016
- US-Israel BSF Rahamimoff Travel Grant for Young Scientists, \$4,000, 2011
- Conference travel grants: IEEE NetSciCom (2011), IEEE MASS (2008), ALGO (2008)
- CUNY Sponsored Dissertation Fellowship (success rate  $\approx 15\%$ ), 2009–2010
- Various co-written sub-proposals (“white papers”) within the ITA and CTA projects, 2008–2011
- Doctoral Student Research Grant, CUNY, 2007 and 2009
- Zalk Student Travel and Research, CUNY, 2006, 2007, 2008, 2009
- CUNY Science Fellowship, 2005–2010
- Score of 99.75/100 (average score: 67/100) on Qualifying Exam (rank: 1 out of 25), 2006
- Master’s MS-TA Fellowship, Columbia, 2001-2002

## Publications

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### Under Review / In Preparation.....

- [M8] G. Figueiredo and M.P. Johnson. Separating boxes with boxes. Manuscript, 2015.
- [M7] H. Chakraborty and M.P. Johnson. Visualizing sexual violence location data and predicting whether crime reports are filed. Manuscript, 2015.
- [M6] I. Feigenbaum and M.P. Johnson. Selfish knapsack. Manuscript, 2015.
- [M5] E. Arkin, J. Gao, M.P. Johnson, and J. Zeng. Geometric  $r$ -gathering. Manuscript, 2015.
- [M4] S. Chakraborty, N. Bitouzé, M. Srivastava, L. Dolecek, and M.P. Johnson. Protecting data against unwanted inferences. Manuscript, 2015.
- [M2] S. Bald, M.P. Johnson, and O. Liu. Approximating the maximum rectilinear crossing number. Submitted, 2015.
- [M1] M.P. Johnson, B. Phelan, A. Bar-Noy, P. Basu, and R. Ramanathan. Minimum-cost broadcast over reliable link-layer multicast. Submitted, 2014.

### Journals.....

- [J15] S. Chechik, M.P. Johnson, M. Parter, and D. Peleg. Secluded connectivity problems. Minor revision, *Algorithmica*, 2015.
- [J14] M.P. Johnson and A. Bar-Noy. Pan and scan: configuring cameras for coverage. Under revision, *Theoretical Computer Science*, 2015.
- [J13] Y. Alayev, A. Bar-Noy, M.P. Johnson, L. Kaplan, and T. La Porta. You can't get there from here: sensor scheduling with refocusing delays. *Wireless Networks*, 21(5), July 2015.
- [J12] M.P. Johnson, F. Fang, and Y. Gai. Distributing patrols to maximize pristine forest area. Minor revision, *Sustainable Computing*, 2014.
- [J11] M.P. Johnson, A. Gutfraind, and K. Ahmadizadeh. Evader interdiction: algorithms, complexity and collateral damage. *Annals of Operations Research*, November 2014.
- [J10] Y. Alayev, F. Chen, Y. Hou, M.P. Johnson, A. Bar-Noy, T. La Porta, K.K. Leung. Throughput maximization in mobile WSN scheduling with power control and rate selection. *IEEE Transactions on Wireless Communication*, 13(7), July 2014.
- [J9] W. Ren, Q. Zhao, R. Ramanathan, J. Gao, A. Swami, A. Bar-Noy, M.P. Johnson, and P. Basu. Broadcasting in multi-radio multi-channel wireless networks using simplicial complexes. *Wireless Networks*, 19(6), August 2013
- [J8] F. Chen, M.P. Johnson, Y. Alayev, A. Bar-Noy, and T. La Porta. Who, when, where: timeslot assignment to mobile clients. *IEEE Transactions on Mobile Computing*, 11(1), January 2012.
- [J7] M.P. Johnson, D. Sariöz, A. Bar-Noy, T. Brown, D. Verma, and C.W. Wu. More is more: robust and efficient coverage in denser sensor deployment. *IEEE Transactions on Sensor Networks*, 8(3), 2012.
- [J6] F. Chen, M.P. Johnson, A. Bar-Noy, and T. La Porta. Proactive data dissemination to mission sites. *Wireless Networks*, 18(7), 2012.
- [J5] M.P. Johnson, A. Bar-Noy, O. Liu, and Y. Feng. Energy peak shaving with local storage. *Sustainable Computing*, 1(3), 2011.
- [J4] M.P. Johnson, H. Rowaihy, D. Pizzocaro, A. Bar-Noy, S. Chalmers, T. La Porta and A. Preece. Sensor-mission assignment in constrained environments. *IEEE Transactions on Parallel and Distributed Systems*, 2(11), 2010.
- [J3] H. Rowaihy, M.P. Johnson, O. Liu, A. Bar-Noy, T. Brown, and T. La Porta. Sensor-mission assignment in wireless sensor networks. *ACM Transactions on Sensor Networks*, 6(4), 2010.

\* Following convention, publications appearing in TCS venues order author names alphabetically.

- [J2] S. Eswaran, M.P. Johnson, A. Misra, and T. La Porta. Distributed utility-based rate adaptation protocols for prioritized, quasi-elastic flows. *Mobile Computing and Communications Review*, 13(1), 2009.
- [J1] M.P. Johnson and R. Parikh. Probabilistic conditionals are almost monotonic. *Review of Symbolic Logic*, 1(1), 2008.

## Conferences.....

- [C37] P. Basu, C.-K. Chau, A. Bejan, R. Gibbens, S. Guha, and M.P. Johnson. Efficient multicast in hybrid wireless networks. *MILCOM 2015*, Tampa, FL, October 2015.
- [C36] S. Chakraborty, M.P. Johnson, and M. Srivastava. Generalizing information bottleneck technique for privacy of inferences. *Annual Fall Meeting of the ITA*, College Park, MD, September 2015.
- [C35] A. Bar-Noy, M. P. Johnson, N. Naghibolhosseini, D. Rawitz, and S. Shamoun. The Price of Incorrectly Aggregating Coverage Values in Sensor Selection. *DCOSS 2015*, Fortaleza, Brazil, June 2015.
- [C34] P. Basu, Feng Yu, M.P. Johnson, and A. Bar-Noy. Low Expected Latency Routing in Dynamic Networks. *IEEE MASS 2014*, Philadelphia, PA, October 2014.
- [C33] S. Chakraborty, F. Cerutti, M.P. Johnson, M. Srivastava. Understanding the information flow dynamics in coalition networks: a game-theoretic analysis. *ITA Fall Meeting 2014*, Cardiff, UK, September 2014.
- [C32] M.P. Johnson and D. Sariöz. Representing a Planar Straight-Line Graph Using Few Obstacles. *CCCG 2014*, Halifax, Nova Scotia, August 2014.
- [C31] M.P. Johnson, O. Liu, and G. Rabanca. Secluded Path via Shortest Path. *SIROCCO 2014*, Hida Takayama, Japan, July 2014.
- [C30] F. Vázquez-Abad, P. Dashevsky, and M.P. Johnson. LP-Based Approaches to Stationary-Constrained Markov Decision Problems. *WODES 2014*, Paris, France, May 2014.
- [C28] N. Hu, M.P. Johnson, D. Pizzocaro, T. La Porta, and A.D. Preece. Resource allocation with non-deterministic demands and profits. *MASS 2013*, Hangzhou, China, October 2013.
- [C27] P. Nain, D. Towsley, M.P. Johnson, F. Yu, P. Basu, and A. Bar-Noy. Traversal times on Markovian paths. *CHANTS 2013*, Miami, FL, September 2013.
- [C26] S. Chechik, M.P. Johnson, M. Parter, and D. Peleg. Secluded connectivity problems. *ESA 2013*, Sophia Antipolis, France, September 2013.
- [C29] S. Chakraborty, K.R. Raghavan, M.P. Johnson, and M.B. Srivastava. A framework for context-aware privacy of sensor data on mobile systems. *HotMobile 2013*, Jekyll Island, GA, February 2013.
- [C25] A. Bar-Noy, Y. Gai, M.P. Johnson, B. Krishnamachar, and G. Rabanca. Funding games: the truth but not the whole truth. *WINE 2012*, Liverpool, UK, December 2012.
- [C24] Zhengyu Yin, Albert Xin Jiang, Matthew P. Johnson, Christopher Kiekintveld, Kevin Leyton-Brown, Tuomas Sandholm, Milind Tambe, John P. Sullivan. TRUSTS: Scheduling Randomized Patrols for Fare Inspection in Transit Systems. *IAAI 2012*, Toronto, Canada, July 2012.
- [C23] M.P. Johnson, F. Feng, M. Tambe. Patrolling to maximize pristine forest area. *AAAI 2012*, Toronto, Canada, July 2012.
- [C22] A. Xin, Jiang, Z. Yin, M.P. Johnson, M. Tambe, C. Kiekintveld, K. Leyton-Brown, and T. Sandholm. Towards optimal patrol strategies for urban security in transit systems. *AAAI 2012*, Toronto, Canada, July 2012.
- [C21] A. Bar-Noy, F. Chen, M.P. Johnson, and T. La Porta. Convergecast with aggregatable data classes. *IEEE SECON 2012*, Seoul, Korea, June 2012.

- [C20] Y. Alayev, F. Chen, Y. Hou, M.P. Johnson, A. Bar-Noy, T. La Porta, K.K. Leung. Throughput maximization in mobile WSN scheduling with power control and rate selection. *DCOSS 2012*, Hangzhou, China, May 2012.
- [C19] W. Ren, Q. Zhao, R. Ramanathan, J. Gao, A. Swami, A. Bar-Noy, M.P. Johnson, and P. Basu. Broadcasting in multi-radio multi-channel wireless networks using simplicial complexes. *IEEE MASS 2011* (acceptance rate: 19.1%), Valencia, Spain, October 2011.
- [C18] A. Bar-Noy, P. Basu, M.P. Johnson, and R. Ramanathan. Minimum-cost broadcast through varying-size neighborcast. *ALGOSENSORS 2011*, Saarbrücken, Germany, September 2011.
- [C17] M.P. Johnson and A. Gutfraind. Evader interdiction and collateral damage. *ALGOSENSORS 2011*, Saarbrücken, Germany, September 2011.
- [C16] M.P. Johnson and A. Bar-Noy. Pan and scan: configuring cameras for coverage. *IEEE INFOCOM 2011* (acceptance rate: 15.96%), Shanghai, China, April 2011.
- [C15] Y. Alayev, A. Bar-Noy, M.P. Johnson, L. Kaplan, and T. La Porta. You can't get there from here: sensor scheduling with refocusing delays. *IEEE MASS 2010* (acceptance rate: 27.6%), San Francisco, CA, November 2010.
- [C14] F. Chen, M.P. Johnson, Y. Alayev, A. Bar-Noy, and T. La Porta. Who, when, where: timeslot assignment to mobile clients. *IEEE MASS 2009* (acceptance rate: 25.4%), Macau SAR, China, October 2009.
- [C13] F. Chen, M.P. Johnson, A. Bar-Noy, I. Fermin, and T. La Porta. Proactive data dissemination to mission sites. *IEEE SECON 2009* (accept rate: 18.8%), Rome, Italy, June 2009.
- [C12] A. Bar-Noy, T. Brown, M.P. Johnson, and O. Liu. Cheap or flexible sensor coverage. *DCOSS 2009* (acceptance rate: 22.4%), Marina Del Rey, CA, June 2009.
- [C11] H. Rowaihy, M.P. Johnson, D. Pizzocaro, A. Bar-Noy, L. Kaplan, T. La Porta, and A. Preece. Detection and localization sensor assignment with exact and fuzzy locations. *DCOSS 2009* (acceptance rate: 22.4%), Marina Del Rey, CA, June 2009.
- [C10] S. Eswaran, M.P. Johnson, A. Misra, and T. La Porta. Adaptive in-network processing for bandwidth and energy constrained mission-oriented multi-hop wireless networks. *DCOSS 2009* (acceptance rate: 22.4%), Marina Del Rey, CA, June 2009.
- [C9] M.P. Johnson, D. Sariöz, A. Bar-Noy, T. Brown, D. Verma, and C.W. Wu. More is more: robust and efficient coverage in denser sensor deployment. *IEEE INFOCOM 2009* (acceptance rate: 19.7%), Rio de Janeiro, Brazil, April 2009.
- [C8] H. Rowaihy, M.P. Johnson, T. Brown, A. Bar-Noy, and T. La Porta. Assigning sensors to competing missions. *IEEE GLOBECOM 2008* (accept rate: 36.8%), New Orleans, LA, Dec. 2008.
- [C7] M. Gomez, A. Preece, M.P. Johnson, G. de Mel, W. Vasconcelos, C. Gibson, A. Bar-Noy, K. Borowiecki, T. La Porta, D. Pizzocaro, H. Rowaihy, G. Pearson, and T. Pham. An ontology-centric approach to sensor-mission assignment. *EKAUW 2008* (acceptance rate for full papers: 16.3%), Sicily, Italy, October 2008.
- [C6] A. Bar-Noy, M.P. Johnson, and O. Liu. Peak shaving through resource buffering. *WAOA 2008*, Karlsruhe, Germany, September 2008.
- [C5] M.P. Johnson, H. Rowaihy, D. Pizzocaro, A. Bar-Noy, S. Chalmers, T. La Porta, and A. Preece. Frugal sensor assignment. *DCOSS 2008* (acceptance rate: 25%), Santorini, Greece, June 2008.
- [C4] A. Bar-Noy, M.P. Johnson, Y. Feng, and O. Liu. When to reap and when to sow: lowering peak usage with realistic batteries. *WEA 2008*, Provincetown, MA, May 2008.
- [C3] A. Bar-Noy, T. Brown, M.P. Johnson, T. La Porta, O. Liu, and H. Rowaihy. Assigning sensors to missions with demands. *ALGOSENSORS 2007*, Wroclaw, Poland, July 2007.

- [C2] M.P. Johnson and A.P. Kosoresow. Finding worst-case instances, and lower bounds, for NP-complete problems using genetic algorithms. *SEAL 2002*, Singapore, December 2002.
- [C1] A.P. Kosoresow and M.P. Johnson. Finding worst-case instances of, and lower bounds for, online algorithms using genetic algorithms. *AI 2002*, Canberra, Australia, December 2002.

### Book Chapters

- T. Brown, P. Brass, M.P. Johnson, and S. Shamoun. Region coverage and protection with sensors: a survey. *Network Science for Military Coalition Operations: Information Exchange and Interaction*, D. Verma and D.I. Fotiadis, eds. Information Science Reference, 2010.
- M.P. Johnson and A.P. Kosoresow. Lower bounds via worst-case instances via genetic algorithms. *Recent Advances in Simulated Evolution and Learning*, K.C. Tan, et al. ed. World Sci., 2004.

### Other Publications

- Various publications (details omitted) at Defense and Security Symposium on Unattended Ground, Sea, and Air Sensor Technologies and Applications.
- Various publications (details omitted) at the Annual Conference of the ITA (ACITA).
- M. Jakob, Z. Moler, A. Komenda, Z. Yin, A.X. Jiang, M.P. Johnson, M. Pechoucek and M. Tambe. AgentPolis: towards a platform for fully agent-based modeling of multi-modal transportation (demonstration) *AAMAS 2012*.
- H. Rowaihy, S. Eswaran, M.P. Johnson, D. Verma, A. Bar-Noy, T. Brown and T. La Porta. A Survey of Sensor Selection Schemes in Wireless Sensor Networks. *SPIE DDS, 2007*.
- A. Preece, D. Pizzocaro, K. Borowiecki, G. de Mel, M. Gomez, W. Vasconcelos, A. Bar-Noy, M.P. Johnson, T. La Porta, H. Rowaihy, G. Pearson and T. Pham. Reasoning and resource allocation for sensor-mission assignment in a coalition context. *MILCOM 2008*, San Diego, CA, Nov. 2008.
- H. Rowaihy, M.P. Johnson, S. Eswaran, D. Pizzocaro, A. Bar-Noy, T. La Porta, A. Misra and A. Preece. Utility-based joint sensor selection and congestion control for task-oriented WSNs. *The Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, October 2008.

### Service and Activities

- Ph.D. Advisor for:
  - Haripriya Chakraborty, Fall 2015–present
  - Elahe Vahdani, Fall 2015–present
  - Andreas Weise, Fall 2015–present
  - Samuel Bald, Fall 2014–present
- Ph.D. Dissertation Committee Member for:
  - Ou Liu (proposal, May 2015)
  - Ali Assarpour (proposal, May 2015)
  - Ning Xu (second exam, November 2013; proposal, February 2015)
  - Feng Yu (second exam, October 2013)
  - Valia Mitsou (proposal, November 2013; defense, May 2014)
- Program Committee Member, DISC 2016
- NSF GRFP Review Panelist, January 2016
- Session Chair, Fall Workshop on Computational Geometry, October 2015
- NSF Review Panelist, July 2015
- Member, Executive Committee of the CUNY Graduate Center CS PhD Program, Fall 2015–present
- Member, Faculty Advisory Committee of the Data Science @ CUNY initiative, Spring 2015–present

- Co-run the weekly Discrete Algorithms Seminar, CUNY Graduate Center, Spring 2014–present
- Member, Computer Science Five-Year Plan Committee, Lehman College, Spring 2014–present
- Reviewer: IEEE/ACM TON, IEEE TWC, IEEE TMC, Discrete Applied Math., Ad Hoc Networks, Sustainable Computing, Journal of Scheduling, Wireless Networks, SECON, SIROCCO, etc.
- PC Member, AAAI 2012
- Member, Executive Committee of the CUNY Graduate Center CS Department, 2006–2010
- Grader, CUNY Math Challenge, 2009–2010

## Talks

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- “Crossing Numbers and US Grad School”, the Pontificia Universidad Católica del Perú, Lima, Peru, 8/12/2015
- “Joint Optimization of Thermoelectric Power Plants”, DIMACS MPE 2013+ Workshop on Natural Resources, Washington, DC, 6/4/2015
- “Research in the Classroom: A Tool for Student Success Based on Authentic Research Experiences”, panel at 11th Annual CUE Conference, CCNY, 5/08/2015
- “Secluded Connectivity Problems”
  - CS Theory Seminar, NYU-Poly, Brooklyn, NY, 11/07/2013
  - Discrete Algorithms Seminar, CUNY Graduate Center, New York, NY, 8/30/2013 and 8/20/2013
- “Representing a Graph Using Few Obstacles”, 23rd Fall Workshop on Computational Geometry (FWCG), CCNY, New York, NY, 10/25/2013
- “Clustering with  $k$ -Means”, University of Chicago, Chicago, IL, 5/06/2013
- “The Knapsack and Ski Rental Problems”, Bard College at Simon’s Rock, Great Barrington, MA, 4/12/2013
- “Optimizing Despite Handicaps: Networking and Game Theory”
  - California State University, Fullerton, CA, 4/10/2013
  - Texas State University, San Marcos, TX, 4/04/2013
- “Optimizing Despite Handicaps: Knapsack Games, Neighborcast and Camera Coverage”, Wichita State University, Wichita, KS, 3/27/2013
- “Optimizing Despite Handicaps: Knapsack Games, Battery Charging and Neighborcast”, Akamai, Cambridge, MA, 3/25/2013
- “Optimizing Despite Handicaps: Knapsack Games, Forest Security, Secluded Paths”
  - Lehman College, New York, NY, 3/21/2013
  - University of Warwick, Warwick, UK, 3/14/2013
  - Xerox Research Centre Europe, Genoble, France, 3/12/2013
  - Institute for Defense Analyses, Bowie, MD, 2/25/2013
- “The Knapsack Problem”
  - Lehman College, CSM Seminar, Bronx, NY, 11/14/2013
  - University of New Hampshire, Manchester, NH, 3/05/2013
  - University of North Carolina, Charlotte, NC, 2/18/2013
- “Optimizing Despite Handicaps: Knapsack Games and Battery Charging”, University of Southern California, Los Angeles, CA, 7/28/2012
- “Covering with inexactly placed sensors”, 17th Fall Workshop on Computational Geometry (FWCG), IBM Research, Hawthorne, NY, 11/09/2007

## Teaching

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- The Graduate Center of CUNY
  - Algorithms for Big Data (Spring 2016)
  - Combinatorial Algorithms (Spring 2015)
  - Approximation Algorithms (Spring 2014)
- Lehman College
  - Intro to Networks / Principles of Communication Networks (Fall 2015)
  - LSP honors seminar “Unifying Ideas in Computer Science” (Spring 2015)
  - Game Theory and Linear Programming (Fall 2014)
  - Discrete Structures (2 times)
  - Intro
- NYU, Stern School of Business
  - Database Management Systems (4 times)
- City College of New York
  - Data Structures (2 times)
  - Intro (2 times)
- Columbia University
  - Computational Complexity (CVN)
  - Data Structures and Algorithms
  - Discrete Math
  - Programming Languages (C, C++, Java)
  - Intro (2 times)
- CUNY Institute for Software Development & Design
  - Oracle 10g: SQL & PL/SQL (4 times)

## References

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- Prof. Amotz Bar-Noy, CUNY, [amotz@sci.brooklyn.cuny.edu](mailto:amotz@sci.brooklyn.cuny.edu)
- Dr. Prithwish Basu, Raytheon BBN Technologies, [pbasu@bbn.com](mailto:pbasu@bbn.com)
- Prof. Bhaskar Krishnamachari, USC, [bkrishna@usc.edu](mailto:bkrishna@usc.edu)
- Distinguished Prof. Thomas La Porta, PSU, [tlp@cse.psu.edu](mailto:tlp@cse.psu.edu)
- Distinguished Prof. Rohit Parikh, CUNY, [rparikh@gc.cuny.edu](mailto:rparikh@gc.cuny.edu)
- Prof. Mani Srivastava, UCLA, [mbs@ucla.edu](mailto:mbs@ucla.edu)