

JELENA DIAKONIKOLAS

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maiden name: Marašević

ACADEMIC APPOINTMENTS

- Assistant Professor* **Jan. 2020–Present**, University of Wisconsin-Madison, Madison, WI,
Department of Computer Sciences
- Postdoctoral Fellow* **2018–Dec. 2019**, UC Berkeley, Berkeley, CA,
UC Berkeley Foundations of Data Analysis Institute
Host: Prof. Michael I. Jordan
- Research Fellow* **Fall 2018**, UC Berkeley, Berkeley, CA,
Simons Institute for the Theory of Computing: Program on Foundations of Data Science
- Postdoctoral Associate* **2016–2018**, Boston University, Boston, MA,
College of Arts and Sciences, Department of Computer Science
Host: Prof. Lorenzo Orecchia
- Visiting Scholar* **Fall 2017**, Simons Institute for the Theory of Computing, Berkeley, CA
Program on Bridging Continuous and Discrete Optimization
- Visiting Scholar* **2016–2017**, Massachusetts Institute of Technology, Cambridge, MA
Laboratory for Information & Decision Systems
Host: Prof. Eytan Modiano

EDUCATION

- Ph.D. in Electrical Engineering* **2012–2016**, Columbia University, New York, NY
Graduate School of Arts and Sciences, Department of Electrical Engineering
Cumulative GPA: 4.11/4.0, M.Phil. awarded in Oct. 2015
Thesis: Resource Allocation in Wireless Networks: Theory and Applications
Advisors: Prof. Gil Zussman and Prof. Cliff Stein
- M.S. in Electrical Engineering* **2011–2012**, Columbia University, New York, NY
School of Engineering and Applied Science, Department of Electrical Engineering
Final GPA: 4.09/4.0
Master of Science Award of Excellence
- B.S. in Electrical Engineering and Computing* **2007–2011**, University of Belgrade, Belgrade, Serbia
School of Electrical Engineering
Major: Communication Systems and Microwave Engineering
Final GPA: 9.82/10.0 (top 2%)
Thesis: Antenna Array Optimization Using a Genetic Algorithm
Thesis advisor: Prof. Dragan Olćan

AWARDS & HONORS

- Fellowship Awards* **2018**, Simons-Berkeley Research Fellowship and Microsoft Research Fellowship,
[Foundations of Data Science](#) program
2015, [Qualcomm Innovation Fellowship](#)
2010, Government of the Republic of Serbia, Ministry of Youth and Sports, *Dositeja*
Fellowship
(Awarded annually to top 1% of senior undergraduate students from Serbian universities.)
2009, Government of the Republic of Serbia, Ministry of Education and Science – Republic
Foundation for the Development of Scientific and Artistic Youth Fellowship
(Awarded annually to 35 students from all engineering schools in Serbia.)

<i>Academic Honors</i>	<p>2017, Morton B. Friedman Memorial Prize for Excellence at Columbia Engineering</p> <p>2017, Columbia University, EE dept. Collaborative Research Award</p> <p>2013, Columbia University, EE dept. Master of Science Award of Excellence</p> <p>2013, Columbia University, EE dept. Jacob Millman Prize for Excellence in Teaching Assistance</p>
<i>Recognitions</i>	<p>2016, Networking Networking Women, 10 Women in Networking/Communications That You Should Watch</p> <p>2015, MIT EECS Rising Star</p>
<i>Best Paper Award</i>	2013 , GENI GREE2013 Best Educational Paper Award
<i>Scholarship Awards</i>	<p>2013, Dr Miloš Babić Scholarship Award (Awarded annually to one student from the City of Kraljevo, Serbia.)</p> <p>2012, Yahoo! Yodel Your Thoughts Scholarship Award</p>
<i>Competitions</i>	<p>2010, <i>Elektrijada</i>, Čanj, Montenegro, 1st place in Telecommunications</p> <p>2009, <i>Elektrijada</i>, Budva, Montenegro, 2nd place in Fundamentals of Electrical Engineering (<i>Elektrijada</i> is the largest annual electrical engineering students' meeting in Europe. It gathers over 2000 students from about 30 schools, and includes various competitions.)</p>

PUBLICATIONS

<i>Preprints</i>	<p>J. Diakonikolas, C. Guzmán, “Complementary Composite Optimization, Small Gradients in General Norms, and Applications to Regression Problems,” arXiv preprint, arXiv:2101.11041, 2021.</p> <p>J. Diakonikolas, P. Wang, “Potential Function-based Framework for Making the Gradients Small in Convex and Min-Max Optimization,” arXiv preprint, arXiv:2101.12101, 2021.</p> <p>C. Song, J. Diakonikolas “Fast Cyclic Coordinate Dual Averaging with Extrapolation for Generalized Variational Inequalities,” arXiv preprint, arXiv:2102.13244, 2021.</p> <p>J. Diakonikolas, L. Orecchia, “Conjugate Gradients and Accelerated Methods Unified: The Approximate Duality Gap View,” arXiv preprint, arxiv:1907.00289, 2019. Unpublished note.</p> <p>J. Diakonikolas and L. Orecchia, “Solving Packing and Covering Linear Programs in $\tilde{O}(\epsilon^{-2})$ Distributed Iterations with a Single Algorithm and Simpler Analysis,” arXiv preprint, arXiv:1710.09002, 2017. Unpublished note.</p>
<i>Conference Proceedings & Refereed Workshops</i>	<p>C. Song, S. Wright, J. Diakonikolas “Variance Reduction via Primal-Dual Accelerated Dual Averaging for Nonsmooth Convex Finite-Sums,” in Proc. ICML’21, 2021. To appear.</p> <p>A. Carderera, J. Diakonikolas, E. Lin, S. Pokutta “Parameter-free Locally Accelerated Conditional Gradients,” in Proc. ICML’21, 2021. To appear. (α-β ordering)</p> <p>J. Diakonikolas, C. Daskalakis, M. I. Jordan, “Efficient Methods for Structured Nonconvex-Nonconcave Min-Max Optimization,” in Proc. AISTATS’21, 2021.</p> <p>J. Diakonikolas, “Halpern Iteration for Near-Optimal and Parameter-Free Monotone Inclusion and Strong Solutions to Variational Inequalities”, in Proc. COLT’20, 2020.</p> <p>N. Chatterji*, J. Diakonikolas*, M. I. Jordan, P. L. Bartlett, “Langevin Monte Carlo Without Smoothness,” in Proc. AISTATS’20, 2020. (*equal contribution)</p> <p>J. Diakonikolas, A. Carderera, S. Pokutta, “Locally Accelerated Conditional Gradients,” in Proc. AISTATS’20, 2020.</p> <p>J. Diakonikolas, A. Carderera, S. Pokutta, “Breaking the Curse of Dimensionality (Locally) to Accelerate Conditional Gradients,” NeurIPS OPT-ML’19, 2019.</p> <p>J. Diakonikolas, C. Guzmán, “Lower Bounds for Parallel and Randomized Convex Optimization,” in Proc. COLT’19, 2019. (α-β ordering)</p> <p>M. Xu, J. Diakonikolas, E. Modiano, S. Subramaniam, “A Hierarchical and Reconfigurable WDM-based Data Center Network Architecture,” in Proc. IEEE ICC’19, 2019.</p>

- M. B. Cohen, J. Diakonikolas, L. Orecchia, "On Acceleration with Noise-Corrupted Gradients," in Proc. ICML'18, 2018. (α - β ordering)
- J. Diakonikolas, L. Orecchia, "Alternating Randomized Block Coordinate Descent," in Proc. ICML'18, 2018.
- J. Diakonikolas and L. Orecchia, "Accelerated Extra-Gradient Descent: A Novel Accelerated First-Order Method," in Proc. ITCS'18, 2018.
- T. Chen, J. Diakonikolas, J. Ghaderi, G. Zussman, "Hybrid Scheduling in Heterogeneous Half- and Full-Duplex Wireless Networks" in Proc. IEEE INFOCOM'18, 2018.
- T. Chen, J. Diakonikolas, J. Ghaderi, G. Zussman, "Fairness and Delay in Heterogeneous Half- and Full-Duplex Wireless Networks," in Proc. Asilomar'18, 2018, **invited paper**.
- J. Marašević, C. Stein, G. Zussman, "A Fast Distributed Stateless Algorithm for α -Fair Packing Problems," in Proc. ICALP'16, 2016.
- J. Marašević, T. Chen, J. Zhou, N. Reiskarimian, H. Krishnaswamy, and G. Zussman, "Full-Duplex Wireless: Algorithms and Rate Improvement Bounds for Integrated Circuit Implementations," in Proc. ACM HotWireless'16, Oct. 2016, **invited paper**.
- H. Krishnaswamy, G. Zussman, J. Zhou, J. Marašević, T. Dinc, N. Reiskarimian, and T. Chen, "Full-Duplex in a Hand-held Device - From Fundamental Physics to Complex Integrated Circuits, Systems, and Networks: An Overview of the Columbia FlexICoN Project," in Proc. Asilomar'16, 2016, **invited paper**.
- J. Marašević, G. Zussman, "On the Capacity Regions of Single-Channel and Multi-Channel Full-Duplex Links," in Proc. ACM MobiHoc'16, 2016.
- J. Marašević, J. Zhou, H. Krishnaswamy, Y. Zhong, G. Zussman, "Resource Allocation and Rate Gains in Practical Full-Duplex Systems," in Proc. ACM SIGMETRICS'15, 2015.
- J. Marašević, C. Stein, G. Zussman, "Max-min Fair Rate Allocation and Routing in Energy Harvesting Networks: Algorithmic Analysis," in Proc. ACM MobiHoc'14, 2014.
- J. Marašević, J. Janak, H. Schulzrinne, G. Zussman, "WiMAX in the Classroom: Designing a Cellular Networking Hands-on Lab," in Proc. The Second GENI Research and Educational Experiment Workshop (GREE2013), Mar. 2013, **Best Educational Paper Award**.
- J. Diakonikolas, M. I. Jordan, "Generalized Momentum-Based Methods: A Hamiltonian Perspective," , SIAM Journal on Optimization, to appear.
- J. Diakonikolas, M. Fazel, L. Orecchia, "Fair Packing and Covering on a Relative Scale," (earlier title: "Width-Independence Beyond Linear Objectives: Distributed Fair Packing and Covering Algorithms"), SIAM Journal on Optimization, to appear.
- J. Diakonikolas, C. Guzmán, "Lower Bounds for Parallel and Randomized Convex Optimization," Journal of Machine Learning Research, 21(5):131, 2020. (α - β ordering)
- T. Chen, J. Diakonikolas, J. Ghaderi, G. Zussman, "Hybrid Scheduling in Heterogeneous Half- and Full-Duplex Wireless Networks" IEEE/ACM Transactions on Networking, vol. 28, no. 2, pp. 764-777, 2020.
- J. Diakonikolas and L. Orecchia, "The Approximate Duality Gap Technique: A Unified Theory of First-Order Methods," SIAM Journal on Optimization, vol. 29, no. 1, pp. 660-689, 2019.
- N. Reiskarimian, T. Dinc, J. Zhou, M. B. Dastjerdi, T. Chen, J. Diakonikolas, G. Zussman, H. Krishnaswamy, "A one-way ramp to a two-way highway: Integrated magnetic-free non-reciprocal antenna interfaces for full duplex wireless," IEEE Microwave Magazine, vol. 20, no. 2, pp. 56-75, 2019, **invited paper**.
- J. Marašević and G. Zussman, "On the Rate Regions of Single-Channel and Multi-Channel Full-Duplex Links," IEEE/ACM Transactions on Networking, vol. 26, no. 1, pp. 47-60, Feb. 2018.

J. Zhou, N. Reiskarimian, J. Diakonikolas, T. Dinc, T. Chen, G. Zussman, H. Krishnaswamy, "Integrated Full-Duplex Radios," *IEEE Communications Magazine*, vol. 55, no. 4, pp. 142-151, 2017, **invited paper**.

J. Marašević, C. Stein, G. Zussman, "Max-min Fair Rate Allocation and Routing in Energy Harvesting Networks: Algorithmic Analysis," *Algorithmica*, vol. 78, no. 2, pp. 521-557, 2017.

J. Marašević, J. Zhou, H. Krishnaswamy, Y. Zhong, G. Zussman, "Resource Allocation and Rate Gains in Practical Full-Duplex Systems," *IEEE/ACM Transactions on Networking*, vol. 25, no. 1, pp. 292-305, Feb. 2017.

Non-Refereed Workshops

J. Zhou, J. Marašević, G. Zussman, H. Krishnaswamy, "Co-design of Full-duplex RFIC and Resource Allocation Algorithms," *IEEE Power Amplifier Symposium*, Sept. 2015.

Demos

T. Chen, J. Zhou, M. B. Dastjerdi, J. Diakonikolas, H. Krishnaswamy, G. Zussman, "Demo Abstract: Full-Duplex with a Compact Frequency Domain Equalization-based RF Canceller," in *Proc. IEEE INFOCOM'17*, 2017.

T. Chen, J. Zhou, N. Grimwood, R. Fogel, J. Marašević, H. Krishnaswamy, G. Zussman, "Demo: Full-Duplex Wireless based on a Small Form-Factor Analog Self-Interference Canceller," in *Proc. ACM MobiHoc'16*, 2016.

T. Chen, J. Zhou, J. Marasevic, H. Krishnaswamy, and G. Zussman, "Double-Talk: Full-Duplex Wireless for Next-Generation Communications," presented at NYC Media Lab's Annual Summit, Columbia University, New York, NY, 2016, **Honorable Mention Award**.*

*Selected among the total of 13 awarded demos out of about 140 presented demos.

TALKS

Google

May 2021, "Fair Packing and Applications to Congestion Control," *Google Algorithms Workshop – Mobility Workshop*, **invited talk**

Cornell ORIE

April 2021, "Structure in Min-Max Optimization (and How to Use It!)," *Cornell ORIE*, **colloquium talk**

IMSI

April 2021, "On Min-Max Optimization and Halpern Iteration," *The Multifaceted Complexity of Machine Learning Workshop*, Institute for Mathematical and Statistical Innovation (IMSI), Chicago, IL, **invited talk**

WiTML

April 2021, "Structure in Min-Max Optimization (and How to Use It!)," *Women in Theoretical Machine Learning Symposium*, TTIC & IMSI, **invited talk**

JHU MINDS/CIS

September 2020, "On Min-Max Optimization and Halpern Iteration," *Johns Hopkins University*, **MINDS & CIS Seminar**, **invited**

UW-Madison

February 2020, "Langevin Monte Carlo Without Smoothness," *University of Wisconsin-Madison*, Madison, WI, **Probability seminar**

Simons

December 2019, "Langevin Monte Carlo Without Smoothness," *Foundations of Data Science Reunion*, Simons Institute for the Theory of Computing, Berkeley CA

TTIC

November 2019, "Langevin Monte Carlo Without Smoothness," *TTIC*, Chicago, IL, **invited talk**

BAIR Seminar

November 2019, "Langevin Monte Carlo Without Smoothness," *UC Berkeley*, Berkeley, CA, **BAIR seminar**

INFORMS

October 2019, "Distributed Algorithms For Fair Packing and Covering Problems," *INFORMS session Bridging Discrete and Continuous Optimization*, Seattle, WA

INFORMS

October 2019, "On Acceleration With Noise-corrupted Gradients," *INFORMS session Optimization in Machine Learning: Accelerated Methods and Stochastic Optimization*, Seattle, WA

INFORMS

October 2019, "A Hamiltonian Perspective On Momentum-based Methods," *INFORMS session Continuous-time Perspective in Optimization*, Seattle, WA

- MURI Annual PI Meeting **September 2019**, "Langevin Monte Carlo Without Smoothness," *MURI Annual PI Meeting @UCLA*, Los Angeles, CA
- UIW-Madison **September 2019**, "Continuous-time Perspective on Optimization Algorithms in Machine Learning," *Machine Learning and Optimization Research Consortium Industry Affiliates Day, University of Wisconsin-Madison*, Madison, WI, **invited talk**
- UIW-Madison **September 2019**, "Langevin Monte Carlo Without Smoothness," *University of Wisconsin-Madison*, Madison, WI, **IFDS seminar**
- ADSI Summer School **August 2019**, "A Tutorial on Convex Optimization: First-order Methods," *ADSI Summer School on Foundations of Data Science*, UW-Seattle, Seattle, WA, **invited lecture**
- MLSE **June 2019**, "The Approximate Duality Gap Technique and Applications," *Machine Learning in Science and Engineering Conference*, Atlanta, GA, **invited talk**
- MMLS **June 2019**, "Lower Bounds for Parallel and Randomized Convex Optimization," *Midwest Machine Learning Symposium*, Madison, WI, **invited talk**
- UC Chile **April 2019**, "Invariance in First-Order Optimization," *Instituto de Ingeniería Matemática y Computacional*, Universidad Católica de Chile, Santiago, Chile, **invited talk**
- OSL **March 2019**, "Invariance in First-Order Optimization," *Optimization and Statistical Learning Workshop*, Les Houches, France, **invited talk**
- ITA **February 2019**, "Lower Bounds for Parallel and Randomized Convex Optimization," *Information Theory and Applications Workshop*, San Diego, CA, **invited talk**
- UC Davis **February 2019**, "Invariance in First-Order Convex Optimization," *Math of Data and Decisions Seminar*, UC Davis, Davis, CA, **invited talk**
- Simons **December 2018**, "Lower Bounds for Parallel and Randomized Convex Optimization," *Data Science Mini-Workshop*, Simons Institute for the Theory of Computing, Berkeley CA
- Simons **December 2018**, "Width-Independence Beyond Linear Objectives: Distributed Algorithms for Fair Packing and Covering Problems," *Bridging Continuous and Discrete Optimization Reunion*, Simons Institute for the Theory of Computing, Berkeley CA
- WoLA **June 2018**, "Block Coordinate Descent and Exact Minimization," *Workshop on Local Algorithms*, MIT, Cambridge, MA, **invited talk**
- USC **May 2018**, "Conservation Laws and First-Order Optimization: Novel Insights and Algorithms," *University of Southern California*, Los Angeles, CA, **ISE colloquium talk**
- UIW-Madison **April 2018**, "Conservation Laws and First-Order Optimization: Novel Insights and Algorithms," *University of Wisconsin-Madison*, Madison, WI, **CS colloquium talk**
- Dartmouth **March 2018**, "Conservation Laws and First-Order Optimization: Novel Insights and Algorithms," *Thayer School of Engineering at Dartmouth*, Hanover, NH, **special seminar**
- Schloss Dagstuhl **March 2018**, "Fairness, Congestion Control, and Scheduling," *Schloss Dagstuhl Seminar on Scheduling*, Wadern, Germany, **invited talk**
- MSR **February 2018**, "A Unifying Theory of First-Order Methods and Applications," *Microsoft Research*, Redmond, WA, **invited talk**
- USC **April 2017**, "From Networked Systems to Theory and Back: Full-Duplex Wireless and Beyond," *University of Southern California*, Los Angeles, CA, **CS colloquium talk**
- Caltech **April 2016**, "A Fast Distributed Algorithm for α -Fair Packing Problems," *Caltech*, Pasadena, CA, **RSRG seminar**
- Bell-Labs **November 2015**, "Full-Duplex Wireless: Resource Allocation and Rate Gains for Realistic Hardware Models," *Bell-Labs*, Murray Hill, NJ, **invited talk**
- Google Research **June 2015**, "A Fast Distributed Algorithm for α -Fair Packing Problems," *Google Research*, New York, NY, **invited talk**
- USC **May 2015**, "Full-Duplex Wireless: Resource Allocation and Rate Gains for Realistic

- Hardware Models," *University of Southern California*, Los Angeles, CA, **CS colloquium talk**
- MSR* **May 2015**, "A Fast Distributed Algorithm for α -Fair Packing Problems," *Microsoft Research Redmond Theory Group*, Redmond, WA, **invited talk**
- UCSB* **May 2015**, "Full-Duplex Wireless: Resource Allocation and Rate Gains for Realistic Hardware Models," *UCSB*, Santa Barbara, CA, **CS colloquium talk**
- GENI* **March 2014**, "GENI in the Classroom: Teaching Cellular Networking with WiMAX Hands-on Labs," *19th GENI Engineering Conference (GEC19)*, Atlanta, GA, **invited talk**
- Conference Presentations* **2013–2018**, Conference and workshop presentations: COLT'20, COLT'19, ICML'18, ITCS'18, ACM HotWireless'16, ICALP'16, ACM MobiHoc'16, ACM SIGMETRICS'15, ACM MobiHoc'14, GENI GREE2013

FUNDING

- NSF Small AF* **10/01/2020–9/30/2023**, National Science Foundation, "AF: RI: Small: Computationally Efficient Approximation of Stationary Points in Convex and Min-Max Optimization" Amount awarded: \$350K Role: (sole) PI
- exploreCSR* **10/21/2020–08/15/2021**, Google Research, "[Wisconsin Science and Computing Emerging Research Stars \(WISCERS\)](#)" Amount awarded: \$18K Role: program organizer, jointly with Shivaram Venkataraman

MENTORING AND ADVISING

- Postdoc* **Nov. 2020–Present**, Chaobing Song, UW-Madison CS & IFDS
- Ph.D.* **Spring 2020–Present**, Cheuk Yin (Eric) Lin, CS Ph.D. student at UW-Madison
- Fall 2020–Present**, Xufeng Cai, CS M.S./Ph.D. student at UW-Madison
- Fall 2020–Present**, Chenghui Li, Stat Ph.D. student at UW-Madison
- Starting Fall 2021**, Puqian Wang, CS M.S./Ph.D. student at UW-Madison
- Intern* **Summer 2021**, Swati Padmanabhan, Ph.D. student at University of Washington
- M.S.* **Spring 2018–Summer 2018**, Cheuk Yin (Eric) Lin, nonconvex optimization, M.S. student at Boston University
- Fall 2015–Spring 2016**, James Thompson, full-duplex project, M.S. student at Columbia University
- Summer 2015–Fall 2015**, Israel Fogel, full-duplex project, M.S. student at Columbia University
- Undergraduate* **Summer & Fall 2020**, Puqian Wang, project on optimal complexity of minimizing gradients in convex optimization, math undergrad exchange student from Shandong University at UW-Madison
- Fall 2015–Spring 2016**, Nicole Grimwood, full-duplex project, undergrad student at Columbia University (now a Ph.D. student at Stanford)
- Summer 2015**, Preetish Tilak, full-duplex project, undergrad student at Purdue University
- High school* **Summer 2014**, Caroline Schiavo, energy-harvesting project, high school student at Kent Place School, NJ (now an undergrad at George Washington University)

TEACHING EXPERIENCE

- 2020–Present** University of Wisconsin-Madison, Madison, WI
- Instructor* **Fall 2020**, CS/ISyE/Math/Stat 726 Nonlinear Optimization I

<i>Instructor</i>	Spring 2020 , CS/ISyE/Math/Stat 726 Nonlinear Optimization I 2011–2015 Columbia University, New York, NY
<i>Teaching Assistant</i>	Fall 2015 , ELEN E6950 Wireless & Mobile Networking I Spring 2014 , ELEN E6951 Wireless & Mobile Networking II Spring 2012 , ELEN E6951 Wireless & Mobile Networking II Fall 2011 , ELEN E3801 Signals and Systems Fall 2011 , ELEN E3804 Signals and Systems Laboratory
<i>Course Manager</i>	Summer 2014 , ELEN E6951 Wireless & Mobile Networking II (CVN ¹) Summer 2013 , ELEN E6951 Wireless & Mobile Networking II (CVN) Spring 2013 , ELEN E6951 Wireless & Mobile Networking II (CVN) Summer 2012 , ELEN E6951 Wireless & Mobile Networking II (CVN) 2009–2011 University of Belgrade, Belgrade, Serbia
<i>Teaching Assistant</i>	Spring 2011 , Foundations of Electrical Engineering Lab Fall 2010 , Microwave Engineering Lab Spring 2010 , Foundations of Electrical Engineering Lab Spring 2009 , Foundations of Electrical Engineering Lab
SERVICE AND OUTREACH	
<i>Thesis Committees</i>	2020 , UW-Madison. Committee member and reader on Michael O’Neill’s Ph.D. thesis committee. 2020 , Tsinghua University. Committee member and reviewer on Chaobing Song’s Ph.D. thesis committee. 2018 , MIT. Reader on Thomas Stahlbuhk’s Ph.D. thesis committee.
<i>Program Committees</i>	2021 , NeurIPS’21. Area Chair. 2021 , ICML’21. Workshop review committee member. 2021 , ICLR’21. Area Chair. 2020 , ICML’20. Meta-reviewer (Area Chair). 2020 , ICALP’20. Program committee member. 2018 , ICNP’18. Technical program committee member. 2018 , NETGCOOP’18. Technical program committee member.
<i>Workshops</i>	2021 , <i>Sampling Algorithms and Geometries on Probability Distributions</i> , Simons Institute for the Theory of Computing. Workshop chair. 2019 , <i>Conference on Optimization, Focus Program on Data Science and Optimization</i> , Fields Institute Toronto. Workshop co-organizer. 2019 , <i>INFORMS session: Continuous-time Perspective in Optimization</i> . Session chair and organizer.
<i>Broadening Participation</i>	2020/2021 , WISCERS exploreCSR. Co-organizing a research-focused mentorship program whose goal is to increase research participation among undergraduate students from historically underrepresented groups in computing. 2020/2021 , UW-Mercile J. Lee Scholars Program (MJLSP). Serving as a “mentor-friend:” a faculty mentor to one of the undergraduate Powers-Knapp Scholars. 2015 , SWE EEE. Participated as an experimenter and as a speaker in the outreach event “Engineering, Exploration, Experience” organized for high school girls by Society of Women Engineers at Columbia University. 2013–2015 , <i>Girls Science Day</i> . Participated as an experimenter in an outreach event organized for middle school girls. 2014 , GSTEM. Mentored a high school student for her research summer internship through NYU Girls’ Science, Technology, Engineering, and Mathematics program supported by the Alfred P. Sloan Foundation.

¹ Columbia Video Network

2013, *High school outreach*. Organized an outreach event at the Manhattan Center for Science and Mathematics in East Harlem.

2012/2013, *Everybody Wins!–Power Lunch program*. Volunteered in the reading program for elementary school children at Mosaic Preparatory Academy in East Harlem.

2012, *Dress for Success*. Co-organized a women-empowerment clothing drive at Columbia U.

Leadership

2018, Co-organized a reading group on First and Second Order Stochastic Optimization Methods at the Simons Institute for the Theory of Computing.

2017, Co-organized a reading group and a symposium on Spectral Graph Theory & Optimization at the Simons Institute for the Theory of Computing.

2016, Organized an N² Women meeting at ACM MobiHoc'16.

2014, Organized an N² Women meeting at ACM MobiHoc'14.

2013, Organized multiple career development events as the corporate chair of Graduate Society of Women Engineers in collaboration with the Center for Career Education at Columbia University.

Journal Reviews

2012–Present, *SIAM Journal on Optimization, Mathematical Programming, Mathematics of Operations Research, IEEE Transactions on Wireless Communications, IEEE Transactions on Mobile Computing, IEEE/ACM Transactions on Networking, IEEE Transactions on Control of Network Systems, Elsevier Ad Hoc Networks, IEEE Communication Letters, IEEE Transactions on Vehicular Technology, ACM Transactions on Embedded Computing Systems, Algorithmica*

Conference Reviews

2012–Present, *NeurIPS* (a top reviewer in 2019 – awarded free registration), *COLT, AISTATS, ACM SIGMETRICS, ACM MobiHoc, ACM MobiCom, IEEE INFOCOM, ACM PODC, EATCS ICALP, ACM-SIAM SODA, APPROX*

Volunteering

2012–2014, *ACM STOC'14, IEEE INFOCOM'12, ACM SIGMETRICS'12*