

Bartolomeo Stellato

Assistant Professor
Princeton University

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Education

University of Oxford PhD in Engineering Science – Thesis: “Mixed-Integer Optimal Control of Fast Dynamical Systems” – Supervision: P. Goulart	Oxford, UK 2018
ETH Zürich MSc in Robotics, Systems and Control – Thesis: “Data-Driven Chance constrained Optimization” – Supervision: B. Van Parys, J. Lygeros	Zürich, CH 2014
Politecnico di Milano BSc in Automation Engineering	Milano, IT 2012

Research Interests

Data-driven computational tools to make decisions in highly dynamic and uncertain environments:

- **Research:** real-time and embedded optimization, robust optimization, optimization-based control, large scale optimization, machine learning for optimization.
- **Applications:** control of fast dynamical systems, robotics, finance, and autonomous systems.

Research Experience

Princeton University Assistant Professor, Dept. of Operations Research and Financial Engineering – Associated Faculty, Dept. of Electrical and Computer Engineering – Associated Faculty, Dept. of Computer Science – Associated Faculty, Center of Statistics and Machine Learning – Affiliated Member, Robotics at Princeton Initiative – Fellow, Whitman College	Princeton, NJ Jul 2020 – Present
MIT Sloan School of Management Postdoctoral Research Associate – Project: “Machine Learning for Optimization” – Supervision: D. Bertsimas	Cambridge, MA Jan 2018 – Jul 2020
Stanford University Visiting Student Researcher – Project: “OSQP: An Operator Splitting Solver for Quadratic Programs” – Supervision: S. Boyd – Open-source software: OSQP (osqp.org). 50+ M downloads . Widely used in academia and industry, including at Google, Blackrock, Lyft, etc.	Stanford, CA 2016
University of Oxford European Union Marie Curie Fellow – Project: “TEMPO: Training in Embedded Predictive Control and Optimization” – Supervision: P. Goulart	Oxford, UK Sep 2014 – Sep 2017

Siemens, Building Technologies Division
Research Intern

Zug, CH
Jul 2013 – Dec 2013

- Project: “Adaptive Superheat Control on HVAC systems”
- Supervision: B. Baumann

Awards

• Seed Grant (co-PI, \$50,000) <i>Princeton School of Engineering and Applied Science (SEAS)</i>	Feb 2024
• CAREER Award (PI, \$500,000) <i>National Science Foundation (NSF)</i>	Mar 2023
• Franco Strazzabosco Young Investigator Award (\$3,000) <i>Italian Scientists and Scholars in North America Foundation (ISSNAF)</i>	Nov 2022
• Student Paper Award (as advisor) <i>INFORMS Computing Society</i>	Oct 2022
• Metropolis Project on Future Cities and Technologies (co-PI, \$100,000) <i>Princeton School of Engineering and Applied Science (SEAS)</i>	Feb 2022
• Innovation Award in Data Science (PI, \$70,000) <i>Princeton School of Engineering and Applied Science (SEAS)</i>	Feb 2022
• 250 th Anniversary Fund for Innovation in Undergraduate Education (\$23,000) <i>Princeton University</i>	May 2021
• Best Paper Award <i>Mathematical Programming Computation</i>	Jan 2021
• Pierskalla Best Paper Award <i>INFORMS Health Applications Society</i>	Nov 2020
• First Place Prize Paper Award (\$1000) <i>IEEE Transactions on Power Electronics</i>	Sep 2018
• Vice-Chancellors' Fund (£3,000) <i>University of Oxford</i>	May 2017
• Masterclass Award (£1,000) <i>St Edmund Hall, University of Oxford</i>	Apr 2015
• Marie Curie PhD Fellowship (€250,000) <i>European Commission</i>	Sep 2014

Teaching Experience

Princeton University, Principal Lecturer Fall 2020 – Present
[ORF522: Linear and Nonlinear Optimization](#) (PhD level, 30+ students)

- Topics: linear optimization modeling, duality, sensitivity analysis and interior point methods. First order methods for nonlinear optimization, monotone operator theory, real-time optimization and data-driven algorithms.
- Applications: engineering, robotics, autonomous systems, finance, and machine learning.

Princeton University, Principal Lecturer Spring 2021 – Present
[ORF307: Optimization](#) (BSc level, 95+ students)

- Topics: least squares optimization with multiple objectives and constraints. Linear optimization modeling, duality, the simplex method, interior point methods, and network flow optimization. Integer programming and branch-and-bound algorithms.
- Applications: engineering, finance, and machine learning.

MIT, Teaching & Learning Laboratory Participant Kaufman Teaching Certificate Program	Aug 2019
– Completed teaching program based on eight workshops aimed at developing teaching skills, organizing new courses and interacting with the students.	
University of Oxford, Tutor Courses: System Identification; Optimal Control; Linear Dynamical Systems	Sep 2015 – Jun 2016
– Responsible for holding weekly <i>tutorials</i> : small interactive teaching sessions with groups of four students with in-depth discussions.	
University of Oxford, Laboratory Assistant Laboratories: LEGO Football; Instrumentation and Control; Helicopter	Jun 2015 – Jun 2017
– Co-organized hands-on undergraduate laboratory courses.	

Supervision

Postdocs

- Gabriele Dragotto, Princeton (co-advised with Prof. Fernández Fisac) 2022–Present
 - [Princeton DataX Postdoc Fellowship](#)

Graduate students

- Yixuan Hua, PhD Princeton (co-advised with Prof. Amir Ali Ahmadi) 2023–Present
PhD topic: Disjunctive Sum of Squares Optimization
- Stefan Clarke, PhD Princeton 2022–Present
PhD topic: Data-Driven Multi-Agent Decision Making
- Rajiv Sambharya, PhD Princeton 2021–Present
PhD topic: Learning to Accelerate Optimizers
 - [Princeton Graduate School Excellence in Teaching Award](#) (ORF307 course)
- Vinit Ranjan, PhD Princeton 2021–Present
PhD topic: Performance Certification for Real-Time Optimization
- Irina Wang, PhD Princeton 2021–Present
PhD topic: Learning for Optimization under Uncertainty
 - [Wallace Memorial Fellowship in Engineering](#)
 - [Princeton SEAS Award for Excellence](#)
 - [INFORMS Computing Society Student Paper Award](#)
- Shuvomoy Das Gupta, PhD MIT (co-supervised with Prof. B. Van Parys) 2019–2022
PhD topic: First-order Methods for Nonconvex Optimization
- Liangyuan Na, PhD MIT (co-supervised with Prof. D. Bertsimas) 2019–2020
PhD topic: Coupled adaptive and robust optimization
- Luca Mingardi, MBAn MIT (co-supervised with Prof. D. Bertsimas) 2019–2021
Master topic: Heart disease predictions from ECG data

Senior thesis students (Princeton)

- Annie Liang 2023–Present
- Sophia Fang 2023–Present
- Anna Glowski 2022–2023
Title: “Optimizing Fun: A TSP-Based Approach to Route Optimization at Disneyland”
- Nishant Kumar Singhal 2022–2023
Title: “Constructing Optimal Flow Networks: An Exploration Centered on the U.S. Flight Network”
- Elliott N. Strahan 2022–2023
Title: “Batch Exchanges Moo-ving Forward: Formalization and Analysis of CFMM-Based Clearing Price Auctions”

- Chen Leon 2022–2023
Title: “A Mixed-Integer Optimization Approach to Allocating Housing Resources for the Homeless”
- Cole Becker 2021–2022
Title: “Data-Driven Methods for Decision-Making Under Uncertainty”
 - [John Ogden Bigelow Jr. Prize in Electrical Engineering](#)
 - Princeton SEAS Mueller Prize
- Joyce Luo 2021–2022
Title: “Equitable Data-driven Resource Allocation to Fight the Opioid Epidemic: a Mixed-integer Optimization Approach”
 - [Sigma Xi Book Award](#)
- Diana Zhang 2021–2022
Title: “Applications of Deep Implicit Layers and Convex Optimization in Portfolio and Risk Management”
- Emma Zhao 2021–2022
Title: “Don’t Forget The Past: An Analysis Of Dementia Risk Factors Around The World”
- Holly Cunningham 2020–2021
Title: “Differentiable Transportation for On-Demand Transportation Systems”
- Ava Jiang 2020–2021
Title: “A Distributed Framework for Learning Agent Rationality”
- Max Jun Kim 2020–2021
Title: “A Computational Approach to Analyzing Supply Chain Sustainability”

Research software engineers (Princeton)

- Amit Solomon 2023–Present
- Vineet Bansal 2021–2022

Service

Review

Mathematical Programming, Operations Research, Mathematics of Operations Research, Management Science, SIAM Journal on Optimization, Mathematical Programming Computation, IEEE Transactions on Automatic Control, ACM Transactions on Mathematical Software, The American Statistician, IEEE Transactions on Power Electronics, Autonomous Robots, INFORMS Journal of Optimization, Optimal Control Applications and Methods, Computers and Operations Research, IEEE Access, IEEE Transactions on Control Systems Technology, IEEE Transactions on Neural Networks and Learning Systems.

Societies and conference committees

- Vice-Chair of Computational Optimization and Software, INFORMS Optimization Society 2023–2025
- Cluster Chair: Computational Optimization and Software, INFORMS Annual Meeting 2024
- Cluster Chair (14 sessions): Emerging Appl. of Optimization, INFORMS Opt. Society Conference (IOS) 2024
- Program committee: 4th Learning for Dynamics and Control Conference (L4DC) 2022
- Program committee: 3th Learning for Dynamics and Control Conference (L4DC) 2021

Invited sessions and seminar organization

- Chair of one invited session: Conference on Information Sciences and Systems (CISS) 2024
- Organizer: Princeton Optimization Seminars 2020–Present
- Chair of one invited session: INFORMS Annual Meeting 2023
- Chair of one invited session: Modeling and Optimization: Theory and Applications (MOPTA) 2023
- Organizer of two minisymposia (16 speakers): SIAM Conf. on Optimization (SIOPT) 2023
- Chair of one invited session: INFORMS Annual Meeting 2022

- Chair of two invited sessions: International Conference on Continuous Optimization (ICCOPT) 2022
- Chair of one invited session: European Conference on Computational Optimization (EUCCO) 2016
- Organizer: Oxford Control and Optimization Seminars 2016–2017

PhD committees

- Zheng Yu, Princeton ECE (advised by Prof. Mengdi Wang) 2022
- Abhishek Cauligi, Stanford Aeroastro (advised by Prof. Marco Pavone) 2021
- Cemil Dibek, Princeton ORFE (advised by Prof. Amir Ali Ahmadi) 2021
- Zachary Hervieux-Moore, Princeton ORFE (advised by Prof. Alain Kornhauser) 2021
- Sinem Uysal, Princeton ORFE (advised by Prof. John Mulvey) 2021
- Hao Lu, Princeton ORFE (advised by Prof. Mengdi Wang) 2021
- Bachir El Khadir, Princeton ORFE (advised by Prof. Amir Ali Ahmadi) 2020

General examination committees

- Stefan Clarke, Princeton ORFE 2023
- Chenyu Yu, Princeton ORFE (advised by Prof. John Mulvey) 2023
- Jennifer Sun, Princeton ORFE (advised by Prof. Elad Hazan) 2023
- Anjian Li, Princeton ECE (advised by Prof. Ryne Beeson) 2023
- Haimin Hu, Princeton ECE (advised by Prof. Jaime Fernández Fisac) 2021
- Rajiv Sambharya, Princeton ORFE 2021
- Pierfrancesco Beneventano, Princeton ORFE (advised by Prof. Boris Hanin) 2021
- Abraar Chaudhry, Princeton ORFE (advised by Prof. Amir Ali Ahmadi) 2021
- Yu Wu, Princeton ECE (advised by Prof. Mengdi Wang) 2021

Academic advising

- 23 undergraduate students/year, ORFE, Princeton University, 2020–Present
- 14 freshman students/year, Whitman college, Princeton University 2021–Present

Other committees and panels

- NSF EPCN Proposal Reviewer 2024
- Assoc. Director of Research Development hiring committee, Princeton Office of the Dean for Research 2023
- Graduate Certificate Program Committee, Princeton Center for Statistics and Machine Learning 2023
- Independent Work grader, Princeton Center for Statistics and Machine Learning 2022–2023
- PhD admissions committee, Princeton ORFE 2022–2023

Open-source software

- CVXPY project maintainer (as part of NumFOCUS) 2021–Present
- OSQP project maintainer (supported by Princeton CSML and OIT) 2022–Present

Publications

Journal articles

- [J13] J. Luo and **B. Stellato**, “[Frontiers in operations: Equitable data-driven facility location and resource allocation to fight the opioid epidemic](#),” *Manufacturing & Service Operations Management (to appear)*, Jun. 2024.
- [J12] D. Bertsimas and **B. Stellato**, “[Online mixed-integer optimization in milliseconds](#),” *INFORMS Journal on Computing*, vol. 34, no. 4, pp. 2229–2248, 2022.
- [J11] A. Cauligi, P. Culbertson, E. Schmerling, M. Schwager, **B. Stellato**, and M. Pavone, “[CoCo: Online mixed-integer control via supervised learning](#),” *IEEE Robotics and Automation Letters*, vol. 7, no. 2, pp. 1447–1454, 2022.

- [J10] M. Schaller, G. Banjac, S. Diamond, A. Agrawal, **B. Stellato**, and S. Boyd, “[Embedded code generation with CVXPY](#),” *IEEE Control Systems Letters*, vol. 6, pp. 2653–2658, 2022.
- [J9] D. Bertsimas, L. Boussioux, R. Cory Wright, A. Delarue, V. Digalakis, A. Jacquillat, D. Lahlou Kitane, G. Lukin, M. L. Li, L. Mingardi, O. Nohadani, A. Orfanoudaki, T. Papalexopoulos, I. Paskov, J. Pauphilet, O. Skali Lami, **B. Stellato**, H. Tazi Bouardi, K. Villalobos Carballo, H. Wiberg, and C. Zeng, “[From predictions to prescriptions: A data-driven response to COVID-19](#),” *Health Care Management Science*, vol. 24, pp. 253–272, Jun. 2021.
 **INFORMS Health Applications Society Pierskalla Best Paper Award**
- [J8] D. Bertsimas, L. Mingardi, and **B. Stellato**, “[Machine learning for real-time heart disease prediction](#),” *IEEE Journal of Biomedical and Health Informatics*, vol. 25, no. 9, pp. 3627–3637, 2021.
- [J7] D. Bertsimas and **B. Stellato**, “[The voice of optimization](#),” *Machine Learning*, vol. 110, pp. 249–277, 2 Feb. 2021.
- [J6] D. Bertsimas, G. Lukin, L. Mingardi, O. Nohadani, A. Orfanoudaki, **B. Stellato**, H. Wiberg, S. Gonzalez-Garcia, C. L. Parra-Calderon, K. Robinson, M. Schneider, B. Stein, A. Estirado, L. a Beccara, R. Canino, M. Dal Bello, F. Pezzetti, and A. Pan, “[COVID-19 mortality risk assessment: An international multi-center study](#),” *PLOS One*, Dec. 2020.
- [J5] **B. Stellato**, G. Banjac, P. Goulart, A. Bemporad, and S. Boyd, “[OSQP: An operator splitting solver for quadratic programs](#),” *Mathematical Programming Computation*, vol. 12, no. 4, pp. 637–672, Oct. 2020.
 **Mathematical Programming Computation Best Paper Award**
- [J4] G. Banjac, P. Goulart, **B. Stellato**, and S. Boyd, “[Infeasibility detection in the alternating direction method of multipliers for convex optimization](#),” *Journal of Optimization Theory and Applications*, vol. 183, no. 2, pp. 490–519, 2019.
- [J3] **B. Stellato**, T. Geyer, and P. Goulart, “[High-speed finite control set model predictive control for power electronics](#),” *IEEE Transactions on Power Electronics*, vol. 32, no. 5, pp. 4007–4020, May 2017.
 **First Prize Paper Award IEEE Transactions on Power Electronics**
- [J2] **B. Stellato**, S. Ober-Blöbaum, and P. Goulart, “[Second-order switching time optimization for switched dynamical systems](#),” *IEEE Transactions on Automatic Control*, vol. 62, no. 10, pp. 5407–5414, Oct. 2017.
- [J1] **B. Stellato**, B. P. Van Parys, and P. Goulart, “[Multivariate chebyshev inequality with estimated mean and variance](#),” *The American Statistician*, vol. 71, no. 2, pp. 123–127, 2017.

Conference proceedings

- [C13] S. Clarke, G. Dragotto, J. Fernandez Fisac, and **B. Stellato**, “[Learning rationality in potential games](#),” in *IEEE Conference on Decision and Control (CDC)*, Dec. 2023.
- [C12] R. Sambharya, G. Hall, B. Amos, and **B. Stellato**, “[End-to-end learning to warm-start for real-time quadratic optimization](#),” in *Proceedings of the 5th Annual Learning for Dynamics and Control Conference*, N. Matni, M. Morari, and G. J. Pappas, Eds., ser. Proceedings of Machine Learning Research, vol. 211, PMLR, Jun. 2023, pp. 220–234.
- [C11] M. Wang, I. McInerney, **B. Stellato**, S. Boyd, and H. So, “[RSQP: Problem-specific architectural customization for accelerated convex quadratic optimization](#),” in *Proceedings of the 50th Annual International Symposium on Computer Architecture*, ser. ISCA '23, Orlando, FL, USA: Association for Computing Machinery, 2023.
- [C10] J. Ichnowski, P. Jain, **B. Stellato**, G. Banjac, M. Luo, F. Borrelli, J. E. Gonzales, I. Stoica, and K. Goldberg, “[Accelerating quadratic optimization with reinforcement learning](#),” in *Advances in Neural Information Processing Systems* 35, Dec. 2021.
- [C9] T. Seyde, I. Gilitschenski, W. Schwarting, **B. Stellato**, M. Riedmiller, M. Wulfmeier, and D. Rus, “[Is bang-bang control all you need? Solving continuous control with bernoulli policies](#),” in *Advances in Neural Information Processing Systems* 35, Dec. 2021.
- [C8] A. Agrawal, S. Barratt, S. Boyd, and **B. Stellato**, “[Learning convex optimization control policies](#),” in *Proceedings of the 2nd Conference on Learning for Dynamics and Control*, ser. Proceedings of Machine Learning Research, vol. 120, PMLR, Jun. 2020, pp. 361–373.

- [C7] A. Cauligi, P. Culbertson, **B. Stellato**, D. Bertsimas, M. Schwager, and M. Pavone, “[Learning mixed-integer convex optimization strategies for robot planning and control](#),” in *IEEE Conference on Decision and Control (CDC)*, Dec. 2020.
- [C6] A. Cauligi, P. Culbertson, **B. Stellato**, M. Schwager, and M. Pavone, “[CoCo: Learning strategies for online mixed-integer control](#),” in *Learning Meets Combinatorial Algorithms at NeurIPS2020*, Dec. 2020.
- [C5] **B. Stellato**, V. V. Naik, A. Bemporad, P. Goulart, and S. Boyd, “[Embedded mixed-integer quadratic optimization using the OSQP solver](#),” in *European Control Conference (ECC)*, Jul. 2018.
- [C4] G. Banjac, **B. Stellato**, N. Moehle, P. Goulart, A. Bemporad, and S. Boyd, “[Embedded code generation using the OSQP solver](#),” in *IEEE Conference on Decision and Control (CDC)*, Dec. 2017.
- [C3] **B. Stellato** and P. Goulart, “[High-speed direct model predictive control for power electronics](#),” in *European Control Conference (ECC)*, Jul. 2016, pp. 129–134.
- [C2] **B. Stellato** and P. Goulart, “[Real-time FPGA implementation of direct MPC for power electronics](#),” in *IEEE Conference on Decision and Control (CDC)*, Dec. 2016, pp. 1471–1476.
- [C1] **B. Stellato**, S. Ober-Blöbaum, and P. Goulart, “[Optimal control of switching times in switched linear systems](#),” in *IEEE Conference on Decision and Control (CDC)*, Dec. 2016, pp. 7228–7233.

Preprints

- [P11] F. Fabiani, **B. Stellato**, D. Masti, and P. Goulart, “[A neural network-based approach to hybrid systems identification for control](#),” *arXiv e-prints*, Apr. 2024. arXiv: [2404.01814](#).
- [P10] H. Hu, G. Dragotto, Z. Zhang, K. Liang, **B. Stellato**, and J. Fernández Fisac, “[Who plays first? Optimizing the order of play in Stackelberg games with many robots](#),” *arXiv e-prints*, Feb. 2024. arXiv: [2402.09246](#).
- [P9] V. Ranjan and **B. Stellato**, “[Verification of first-order methods for parametric quadratic optimization](#),” *arXiv e-prints*, Mar. 2024. arXiv: [2403.03331](#).
- [P8] I. Wang, C. Becker, B. Van Parys, and **B. Stellato**, “[Learning decision-focused uncertainty sets in robust optimization](#),” *In preparation*, 2024. arXiv: [2305.19225](#).
- [P7] D. Bertsimas, L. Na, and **B. Stellato**, “[The benefit of uncertainty coupling in robust and adaptive robust optimization](#),” *arXiv e-prints*, Feb. 2023. arXiv: [2302.10369](#).
- [P6] S. Das Gupta, **B. Stellato**, and B. P. G. Van Parys, “[Exterior-point optimization for sparse and low-rank optimization](#),” *arXiv e-prints*, Aug. 2023. arXiv: [2011.04552](#).
- [P5] T. Diamandis, Z. Frangella, S. Zhao, **B. Stellato**, and M. Udell, “[Genios: An \(almost\) second-order operator-splitting solver for large-scale convex optimization](#),” *arXiv e-prints*, Oct. 2023. arXiv: [2310.08333](#).
- [P4] G. Dragotto, S. Clarke, J. Fernandez Fisac, and **B. Stellato**, “[Differentiable cutting-plane layers for mixed-integer linear optimization](#),” *arXiv e-prints*, Nov. 2023. arXiv: [2311.03350](#).
- [P3] Z. Frangella, S. Zhao, T. Diamandis, **B. Stellato**, and M. Udell, “[On the \(linear\) convergence of generalized Newton inexact ADMM](#),” *arXiv e-prints*, Feb. 2023. arXiv: [2302.03863](#).
- [P2] R. Sambharya, G. Hall, B. Amos, and **B. Stellato**, “[Learning to warm-start fixed-point optimization algorithms](#),” *arXiv e-prints*, Sep. 2023. arXiv: [2309.07835](#).
- [P1] I. Wang, C. Becker, B. Van Parys, and **B. Stellato**, “[Mean robust optimization](#),” *arXiv e-prints*, Sep. 2022. arXiv: [2207.10820](#).

🏆 [INFORMS Computing Society Student Paper Award](#)

Theses

- [T2] **B. Stellato**, “[Mixed-integer optimal control of fast dynamical systems](#),” PhD thesis, University of Oxford, 2017.
- [T1] **B. Stellato**, “[Data-driven chance constrained optimization](#),” MSc thesis, ETH Zürich, 2014.

Selected Invited Talks

• Autonomy Talks, <i>Virtual</i> , Zoom	Apr 2024
• INFORMS Optimization Society Conference, <i>Houston</i> , TX	Mar 2024
• Conference on Information Sciences and Systems, <i>Princeton University</i> , NJ	Mar 2024
• AAAI Workshop on Learnable Optimization, <i>Vancouver</i> , CA	Feb 2024
• Discrete Optimization Talks, <i>Virtual</i> , Zoom	Feb 2024
• INFORMS Annual Meeting, <i>Phoenix</i> , AZ	Oct 2023
• Thematic Einstein Semester, <i>Zuse Institute Berlin</i> , DE	Sep 2023
• International Conference on Stochastic Programming, <i>UC Davis</i> , CA	Jul 2023
• SIAM Conference on Optimization, <i>Seattle</i> , WA	May 2023
• Mixed-Integer Programming Workshop, <i>University of Southern California</i> , CA	May 2023
• Conference on Information Sciences and Systems, <i>Johns Hopkins University</i> , MD	Mar 2023
• IPAM Workshop on Artificial Intelligence and Discrete Optimization, <i>UCLA</i> , CA	Feb 2023
• Mechanical Engineering Seminar, <i>UC Berkeley</i> , CA	Nov 2022
• Future of OR Workshop at INFORMS Annual Meeting, <i>Indianapolis</i> , IN	Oct 2022
• DEIB Seminar, <i>Politecnico di Milano</i> , IT	Jun 2022
• Cornell ORIE Seminar, <i>Cornell Tech</i> , NY	Mar 2022
• NASA JPL Multi-Agent Tech Talks, <i>Virtual</i> , Zoom	Mar 2022
• INFORMS Annual Meeting, <i>Anaheim</i> , CA	Oct 2021
• Joint Princeton Robotics and Optimization Seminar, <i>Virtual</i> , Zoom	May 2021
• Raytheon Technologies Research Center, <i>Virtual</i> , Zoom	Jan 2021
• Invited Session at the INFORMS Annual Meeting 2020, <i>Virtual</i> , Zoom	Nov 2020
• Mathematics of Data and Decisions at Davis (MADDD) Seminars, <i>UC Davis</i> , CA	Jun 2020
• Fields Institute Focus Program on Data Science and Optimization, <i>Fields Institute</i> , CA	Nov 2019
• IEOR Seminars, <i>UC Berkeley</i> , USA	Oct 2019
• SISL Seminars, <i>Stanford</i> , USA	Oct 2019
• Invited Session at the INFORMS Annual Meeting 2019, <i>Seattle</i> , WA	Oct 2019
• Operations Research Center IAP Seminar, <i>MIT</i> , USA	May 2019
• IDSS Seminar on Algebra Statistics and Optimization, <i>MIT</i> , USA	Jan 2019
• Intl. Symposium of Mathematical Programming (ISMP), <i>Bordeaux</i> , France	Jul 2018
• Mathematical Institute, <i>University of Oxford</i> , UK	Nov 2017
• Control Systems Group, <i>Cambridge University</i> , UK	Jun 2017
• Operations Research Center, <i>MIT</i> , USA	Jun 2017
• DYSCO Research Group, <i>IMT Lucca</i> , Italy	Jan 2017
• MPC Laboratory, <i>UC Berkeley</i> , USA	Oct 2016
• European Conf. on Computational Optimization (EUCCO), <i>KU Leuven</i> , Belgium	Sep 2016

Technical Skills

- **Programming:** Python, Julia, C/C++
- **Web design:** HTML, CSS, Javascript, React
- **Tech/Tools:** Git, Docker, SLURM
- **Embedded design:** Xilinx FPGA

Languages

- **Italian:** Mother tongue
- **English:** Fluent (C2)
- **French:** Intermediate (B1)
- **German:** Basic (A2)

Interests and Activities

- Music, Collection and playing
 - Piano diploma (5th year), *Istituto Superiore di Studi Musicali “F. Vittadini”*, Pavia, Italy, Grade 8.50/10
 - Music theory and solfeggio diploma, *Istituto Superiore di Studi Musicali “C. Monteverdi”*, Cremona, Italy, Grade 9.60/10
- MITaly, Member of the MIT Italian Association Board.
 - Organized large events in collaboration with Italian communities and the Consulate General of Italy in Boston.
 - Organized seminar series with Italian professors at MIT and Harvard.
 - Developed the association main website (mitaly.mit.edu).