

Yuri Faenza
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**Contact
information**

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**A. Fields of
specializations**

Discrete optimization, Polyhedral combinatorics, Operations research,
Matching theory and its applications

B. Education

- 2010 Ph.D. in Operations Research. Final grade: *Excellent*¹
Sapienza Università di Roma, Rome, Italy
Advisor: Prof. Gianpaolo Oriolo
Dissertation: *On the interplay between extended formulations
and algorithms in some combinatorial problems*
- 2006 M. Sc. in Mathematical Engineering, *summa cum laude*
Università di Roma Tor Vergata, Rome, Italy
Advisors: Prof. Gianpaolo Oriolo and Prof. Volker Kaibel
Thesis: *Graph coloring using orbitopes*
- 2004 B. Sc. in Management Science and Engineering, *summa cum laude*
Università di Roma Tor Vergata, Rome, Italy
Advisors: Prof. Gianpaolo Oriolo and Prof. Benedetto Scoppola
Thesis: *The min-sum vertex cover on trees*

C. Employment

- From 2022 Associate Professor, IEOR Department
Affiliated Member, Data Science Institute (from 2019)
Columbia University, New York, USA
- 2016-2021 Assistant Professor, IEOR Department
Columbia University, New York, USA
(on paternity leave during the Fall 2020 semester)
- 2015-2016 SNSF Ambizione Fellow
DISOPT group, EPFL, Lausanne, Switzerland
- 2014 Post-doctoral researcher
Mathematics Department, ULB, Brussels, Belgium
- 2012-2014 Post-doctoral researcher
DISOPT group, EPFL, Lausanne, Switzerland
- 2010-2012 Post-doctoral researcher
Mathematics Department, Università di Padova, Padua, Italy
- 2006 Intern
Discrete Optimization group, Zuse Institute Berlin, Berlin, Germany

¹Highest possible grade for a Ph.D. dissertation in the Italian academic system.

**D. Honors,
awards,
scholarships,
qualifications**

- 2018 *SEAS Distinguished Faculty Teaching Award*, The Fu Foundation School of Engineering, Columbia University, New York, USA
- 2017 Qualification as *Professore Associato* (Associate Professor), Italian academic system
- 2013 Qualification as *Maître de Conférence*, French academic system
- 2012 *Lorenzo Brunetta* award for a Ph.D. thesis in Operations Research defended during the years 2010-11-12 (ca. 3,000 USD, 1 prize awarded every 3 years)
- 2007 *Adonet* scholarship, granted by the Marie Curie RTN (ca. 20,000 USD)
- 2007 *Sebastiano and Rita Raeli* award for the results in the M.Sc. program (ca. 6,000 USD)
- 2006-2009 Ph.D. Scholarship, granted by the Italian Ministry of Education
- 2006 *Leonardo* Scholarship for an internship within the European Union

Awards to students for joint research projects

- 2021 Xuan Zhang: INFORMS *George Nicholson Student Paper Competition*, Finalist
- 2021 Xuan Zhang: INFORMS *Service Science Best Student Paper Award*, Finalist
- 2020 Jia Wan: *Rhodes China Scholarship* (0.7% acceptance rate) for graduate studies at Oxford
- 2020 Yunhao Tang: *Most popular poster award* (as selected by the attendees) and runner-up for the *Best poster award* in the *MIP 2020 poster competition* (ca. 50 submissions)
- 2020-2021 Xuan Zhang: *Cheung-Kong Innovation* Doctoral Fellowship
- 2020 Manuel Aprile: *Lorenzo Brunetta prize* for a Ph.D. thesis in Operations Research defended during the years 2017-18-19 (1 prize awarded every 3 years)
- 2018 Xuan Zhang: *Best poster award*, Princeton optimization day (ca. 40 submissions)

E. Funding	2021-2026	<i>CAREER: An algorithmic theory of matching markets</i> National Science Foundation.
	2020-2023	<i>Linear extended formulations: packing, covering, and restricted SoS</i> Office of Naval Research.
	2020-2022	<i>The Mixed-Integer Programming workshop 2020</i> Office of Naval Research.
	2019-2020	<i>I-Corps: 3D Capturing Technology Based on Light Fields</i> National Science Foundation.
	2017	Gift to continue the research on the topics of the <i>Ambizione</i> grant Swiss National Science Foundation.
	2014-2017	<i>Ambizione: Tight formulations for 0/1 optimization problems</i> Swiss National Science Foundation.

F. Teaching Experience	Fall 2021	IEOR E8100: Matching Markets & Algorithms, IEOR, Columbia University, USA (for Ph.D. students)
	Fall 2017-18, 21	IEOR E4004: Optimizations models and methods, IEOR, Columbia University, USA (for M.Sc. students)
	Spring 2018-21	IEOR E6614: Optimization II, IEOR, Columbia University, USA (for Ph.D. students)
	Spring 2017-20	IEOR E4008 (prev. E4573): Computational discrete optimization, IEOR, Columbia University, USA (for M.Sc. students)
	Summer 2019	Stable matchings: basic theory and extensions, Università di Roma Tor Vergata, Italy (invited Ph.D. course)
	Spring 2017	IEOR E8100: Introduction to discrete optimization, IEOR, Columbia University, USA (for Ph.D. students)
	Spring 2016	Strong relaxations for discrete optimization problems, EPFL, Switzerland (for Ph.D. students in Mathematics, Operations research, and Computer science)
	Spring 2011-12	Discrete optimization, Università di Padova, Italy (for B.Sc. students in Mathematics)

G. Mentoring	<u>Current Ph.D. students</u>	
	Lingyi Zhang	From 2018, Ph.D. student at Columbia University, USA Tentative dissertation title: <i>Incremental packing: polyhedra and algorithms</i>
	Matias Villagra	From 2020, Ph.D. student at Columbia University, USA (jointly with D. Bienstock) Tentative dissertation title: <i>Optimizing symmetric integer programs</i>

Chengyue He From 2021, Ph.D. student at Columbia University, USA
(jointly with J. Sethuraman) Tentative dissertation title:
Stable matchings and polyhedra

Past Ph.D. students

Xuan Zhang Ph.D. 2021, Columbia University, USA, Thesis:
Two-sided matching markets: models, structures, and algorithms
Current Position: Post-doc, Facebook Research

Vladlena Powers Ph.D. 2020, Columbia University, USA, Thesis: *Discrete
optimization problems in popular matchings and scheduling*
Current position: Senior data scientist, Lowe's

Igor Malinović Ph.D. 2019, EPFL, Switzerland (jointly with F. Eisenbrand)
Thesis: *On approximation algorithms and polyhedral relaxations
for knapsack problems, and clustered planarity testing*
Current position: Big data analyst, FELA Management AG

Manuel F. Aprile Ph.D. 2018, EPFL, Switzerland (jointly with F. Eisenbrand)
Thesis: *On some problems related to 2-level polytopes*
Current position: Post-doc, Università di Padova, Italy

Selected past M.Sc. and B.Sc. students

Jia Wan M.Sc. 2019, Columbia University, USA (jointly with C. Stein)

Jana Cslovjcek M.Sc. 2018, EPFL, Switzerland (jointly with F. Eisenbrand)

Stefano Piccghello B.Sc. 2012, Univ. Padova, Italy (jointly with M. Conforti)

Riccardo Focchiatti B.Sc. 2012, Univ. Padova, Italy (jointly with M. Di Summa)

Marco Senatore M.Sc. 2010, Univ. Roma Tor Vergata, Italy
(jointly with G. Oriolo)

**H. Selected
invited talks
(since 2016)**

- 2021 HIM Workshop in Approximation and Relaxation, Germany
Title: *Approximating popular and stable matchings*
- 2021 Oberwolfach Workshop in Combinatorial Optimization, Germany
Title: *Stable matchings, lattices, and polytopes*
- 2021 DOT (Discrete Optimization Talks) seminar, online
Title: *Stable matchings, lattices, and polytopes*
- 2021 AGCO (Algorithms, Games, Combinatorics and Optimization) seminar, Chile
Title: *Some discrete optimization problems in matching markets*
- 2021 University of British Columbia, Canada
Title: *Some discrete optimization problems in matching markets*
- 2021 Simons Institute, UC Berkeley, USA
Title: *Algorithms for stable matching problems in choice function models*
- 2020 SODA conference, Salt Lake City, USA
Title: *Quasi-popularity, optimality, and extended formulations*
- 2020 Aussois workshop in combinatorial optimization, France
Title: *Popular matching problems with edge weights*
- 2019 SODA conference, San Diego, USA
Title: *Popular matchings and limits to tractability*
- 2019 Simons Institute, UC Berkeley, USA
Title: *Popular matching problems with edge weights*
- 2019 Joint Mathematics Meeting, Baltimore, USA
Title: *Bounded pitch inequalities for min knapsack:
approximate separation and integrality gaps*
- 2018 Riken, Japan
Title: *Legal assignments and fast EADAM with consent
via classical theory of stable matchings*
- 2018 Tel Aviv University, Israel
Title: *Balas formulation for the union of polytopes is optimal*
- 2018 Banff international research station, Canada
Title: *Bounded pitch inequalities for min knapsack:
approximate separation and integrality gaps*
- 2018 Ecole Polytechnique Montreal, Canada
Title: *Legal assignments and fast EADAM with consent
via classical theory of stable matchings*
- 2018 Rutgers, USA
Title: *Legal assignments and fast EADAM with consent
via classical theory of stable matchings*
- 2018 MIP Workshop, Clemson University, USA
Title: *Balas formulation for the union of polytopes is optimal*
- 2018 EPFL, Switzerland
Title: *Balas formulation for the union of polytopes is optimal*

- 2017 Simons Institute, UC Berkeley, USA
Title: *Balas formulation for the union of polytopes is optimal*
- 2017 INFORMS annual meeting, Houston, USA
Title: *On knapsack problems over time*
- 2017 Università di Padova, Italy
Title: *An invitation to 2-level polytopes*
- 2017 Università di Roma Tor Vergata, Italy
Title: *An invitation to 2-level polytopes*
- 2017 IBM Watson research center, USA
Title: *Incremental knapsack problems*
- 2016 INFORMS annual meeting, Nashville, USA
Title: *2-level polytopes: recent results and open problems*
- 2016 Cargese workshop in combinatorial optimization, France
Title: *On largest volume simplices and sub-determinants*
- 2016 Georgia Tech, USA
Title: *Geometric approaches to discrete optimization problems*
- 2016 ULB, Belgium
Title: *On largest volume simplices and sub-determinants*
- 2016 CMS Session on Combinatorial, Geometric, and Computational Aspects of Optimization
Title: *An invitation to 2-level polytopes*
- 2016 TU Darmstadt, Germany
Title: *On largest volume simplices and sub-determinants*

I. Visiting positions (one month or more)

- Sept-Oct 2019: Simons Institute, UC Berkeley (USA), within the program *Online and Matching-Based Market Design*
- Jun-Aug 2019: Università di Roma Tor Vergata (Italy)
- Nov 2015: HIM (Hausdorff Research Institute for Mathematics), Universität Bonn (Germany), within the trimester program *Combinatorial Optimization*
- June 2012: University of Waterloo (Canada)
- Apr-May 2010: University of Waterloo (Canada)
- Oct-Nov 2009: Université de Bordeaux (France)
- May-Dec 2007: Otto-von-Guericke-Universität Magdeburg (Germany)

J. Professional service

Member of the program committees for the following conferences/workshops: MIP 2022 (chair), MIP 2021, MIP 2020, IPCO 2020, CTW 2020.

Starting 2020, member of the organizing committee of the Cargese Workshop in Combinatorial Optimization.

In 2021-2022, committee member for the George Nicholson Prize (INFORMS).

Since 2020, Associate Editor for *Operations Research Letters*.

Since 2021, Associate Editor for *Discrete Optimization*.

Since 2022, Vice-chair for *Integer and Discrete Optimization* in the Optimization Society, INFORMS.

Panelist for the NSF (once), referee for proposals submitted to the Office of Naval Research (three times), the Air Force Office of Scientific Research, the Romanian and Italian Ministries of Education (once each).

Reviewer for journals, such as *Operations Research*, *Mathematical Programming*, *Mathematics of OR*, *Siam Journal on Optimization*, *Algorithmica*, *Siam Journal on Discrete Mathematics*, *OR Letters*, *Naval Research Logistics*, *Discrete & Computational Geometry*; and international conferences, such as: IPCO, SODA, STOC, ICALP, ESA.

Organizer of themed sessions at International Symposium on Mathematical Programming (ISMP) in 2015 and 2018; at the 2018 INFORMS Optimization Society Conference, and at the 2019 INFORMS General Meeting.

Organizer of cycle of seminars at the Università di Roma Tor Vergata, Italy (2008-2010) and at the EPFL, Switzerland (2012-2014; 2015-2016); co-organizer of the IEOR–DRO seminars, Columbia University, USA (2017-2021).

L. Publications See my Google scholar profile for more information. In all papers I published, the author orders is alphabetical. Students coauthors whose work on the paper I supervised are underlined.

In journals:

1. Y. Faenza, D. Segev, and L. Zhang. Approximation algorithms for the generalized incremental knapsack problem. Accepted for publication in *Mathematical Programming* (2021)
2. Y. Faenza and X. Zhang. Legal Assignments and fast EADAM with consent via classical theory of stable matchings. Accepted for publication in *Operations Research* (2021)
3. A. Cseh, Y. Faenza., T. Kavitha, and V. Powers. Understanding popular matchings via stable matchings. Accepted for publication in *SIAM Journal on Discrete Mathematics* (2021)
4. Y. Faenza, I. Mourtos, M. Samaris, and J. Sethuraman. (Un)stable matchings with blocking costs. *Operations Research Letters* 49 (5), pp. 655–662 (2021)
5. D. Bienstock, Y. Faenza, and X. Zhang. Pitch, extension complexity, and covering problems. *Operations Research Letters* 49 (3), pp. 357–364 (2021)

6. Y. Faenza and T. Kavitha. Quasi-popular matchings, optimality, and extended formulations. Accepted for publication in *Mathematics of Operations Research* (2020)
7. Y. Faenza, [G. Muñoz](#), and S. Pokutta. New limits of Treewidth-based tractability in Optimization. Accepted for publication in *Mathematical Programming* (2020)
8. Y. Faenza, G. Oriolo, and G. Stauffer. Separation routine and extended formulations for the stable set problem in claw-free graphs. Accepted for publication in *Mathematical Programming* (2020)
9. D. Bienstock, Y. Faenza, [I. Malinovic](#), M. Mastrolilli, O. Svensson and M. Zuckerberg. On inequalities with bounded coefficients and pitch for the Min Knapsack polytope. Accepted for publication in *Discrete Optimization* (2020)
10. [M. Aprile](#) and Y. Faenza. Extended formulations from communication protocols in output-efficient time. *Mathematical Programming*, 183 (2020), pp. 41–59
11. M. Conforti, M. Di Summa, and Y. Faenza. Balas formulation for the union of polytopes is optimal. *Mathematical Programming*, 180 (2020), pp. 311–326
12. A. Bohn, Y. Faenza, S. Fiorini, V. Fisikopoulos, M. Macchia, and K. Pashkovich. Enumeration of 2-level polytopes. *Mathematical Programming Computation*, 11-1 (2019), pp. 173–210
13. [M. Aprile](#), [A. Cevallos](#), and Y. Faenza. On 2-level polytopes arising in combinatorial settings. *SIAM Journal on Discrete Mathematics* Vol. 32, No. 3 (2018), pp. 1857-1886
14. M. Conforti, A. Del Pia, M. Di Summa, and Y. Faenza: Reverse Split rank. *Mathematical Programming*, 154-1 (2016), pp. 273–303
15. Y. Faenza, S. Fiorini, R. Grappe, and H.R. Tiwary. Extended formulations, non-negative factorizations, and randomized communication protocols, *Mathematical Programming*, 153-1 (2015), pp. 75–94
16. Y. Faenza and L. Sanità. On the existence of compact epsilon-approximation for the knapsack polytope in the original space. *Operations Research Letters* 43-3 (2015), pp. 339–342
17. M. Conforti, A. Del Pia, M. Di Summa, Y. Faenza, and R. Grappe. Reverse Chvátal-Gomory rank, *SIAM Journal on Discrete Mathematics*: 29-1 (2015), pp. 166–181
18. Y. Faenza, G. Oriolo, and G. Stauffer. Solving the weighted stable set problem in claw-free graphs via decomposition, *Journal of the ACM*, 61-4 (2014): 20
19. G. Averkov, M. Conforti, A. Del Pia, M. Di Summa, and Y. Faenza. On the convergence of the affine hull of the Chvátal-Gomory closures, *SIAM Journal on Discrete Mathematics* 27-3 (2013), pp. 1492–1502

20. F. Bonomo, Y. Faenza, and G. Oriolo. On coloring problems with local constraints, *Discrete Mathematics*, Vol. 312, Issues 12–13 (2012), pp. 2027–2039
21. Y. Faenza, G. Oriolo, and C. Snels. A fast algorithm to remove proper and homogeneous pairs of cliques (while preserving some graph invariants), *Operations Research Letters*, Vol. 39, Issue 3 (2011), pp. 213–217
22. Y. Faenza and V. Kaibel. Extended Formulations for Packing and Partitioning Orbitopes, *Mathematics of Operations Research* Vol. 34, No. 3 (2009), pp. 686–697

In conferences with published, peer-reviewed proceedings²

23. Y. Faenza and X. Zhang. Affinely representable lattices, stable matchings, and choice functions. *Proceedings of IPCO* (2021)
24. Y. Tang, S. Agrawal, and Y. Faenza. Reinforcement Learning for Integer Programming: Learning to Cut. *Proceedings of 37th International Conference on Machine Learning (ICML, 2020)*.
25. M. Aprile, M. Conforti, Y. Faenza, S. Fiorini, T. Huynh, and M. Macchia. Recognizing Cartesian products of matrices and polytopes. *Proceedings of CTW* (2020)
26. * Y. Faenza and T. Kavitha. Quasi-popular matchings, optimality, and extended formulations. *Proceedings of the 31st ACM-SIAM Symposium on Discrete Algorithms (SODA, 2020)*
27. * M. Aprile and Y. Faenza. Extended formulations from communication protocols in output-efficient time. *Proceedings of IPCO* (2019)
28. Y. Faenza, T. Kavitha, V. Powers, and X. Zhang. Popular Matchings and Limits to Tractability *Proceedings of the 30th ACM-SIAM Symposium on Discrete Algorithms (SODA, 2019)*
29. * Y. Faenza, I. Malinovic, M. Mastrolilli, and O. Svensson. On bounded pitch inequalities for the min-knapsack polytope. *Proceedings of ISCO* (2018)
30. Y. Faenza and I. Malinovic. A PTAS for the Time-Invariant Incremental Knapsack problem. *Proceedings of ISCO* (2018)
31. M. Aprile, Y. Faenza, S. Fiorini, T. Huynh, and M. Macchia. Extension complexity of stable set polytopes of bipartite graphs. *Proceedings of the 43rd Int. Workshop on Graph-Theoretic Concepts in Computer Science (WG, 2017)*
32. * M. Aprile, A. Cevallos, and Y. Faenza. On vertices and facets of combinatorial 2-level polytopes. *Proceedings of the Fourth International Symposium on Combinatorial Optimization (ISCO, 2016)*, pp 177-188
33. * A. Bohn, Y. Faenza, S. Fiorini, V. Fisikopoulos, M. Macchia, and K. Pashkovich. Enumeration of 2-level polytopes. *Proceedings of the*

²We mark with * a conference paper whose journal version has also been published.

Twenty-Third European Symposium on Algorithms (ESA, 2015), pp. 191–202

34. M. Di Summa, F. Eisenbrand, Y. Faenza, and C. Moldenhauer. On largest volume simplices and sub-determinants, Proceedings of the Twenty-Sixth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA, 2015), pp. 315–323
35. A. Bock, Y. Faenza, C. Moldenhauer, and A. Ruiz-Vargas. Solving the stable set problem in terms of the odd cycle packing number. Proceedings of the 34th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS, 2014), pp.187–198
36. * M. Conforti, A. Del Pia, M. Di Summa, and Y. Faenza. Reverse Split rank, Proceedings of the 16th Conference on Integer Programming and Combinatorial Optimization (IPCO, 2014), pp 234–248
37. * M. Conforti, A. Del Pia, M. Di Summa, Y. Faenza, and R. Grappe. Reverse Chvátal-Gomory rank, Proceedings of the 16th Conference on Integer Programming and Combinatorial Optimization (IPCO, 2013), pp 133–144
38. * Y. Faenza, S. Fiorini, R. Grappe, and H.R. Tiwary: Extended formulations, non-negative factorizations, and randomized communication protocols, Proceedings of the 2nd International Symposium on Combinatorial Optimization (ISCO, 2012), pp. 129–140
39. * Y. Faenza, G. Oriolo, and G. Stauffer. Separating stable sets in claw-free graphs via Padberg-Rao and compact linear programs, Proceedings of the Twenty-Third Annual ACM-SIAM Symposium on Discrete Algorithms (SODA, 2012), pp. 1298–1308
40. Y. Faenza, G. Oriolo, and G. Stauffer. An algorithmic decomposition of claw-free graphs leading to an $O(n^3)$ -algorithm for the weighted stable set problem, Proceedings of the Twenty-Second Annual ACM-SIAM Symposium on Discrete Algorithms (SODA, 2011), pp. 630–646
41. * F. Bonomo, Y. Faenza, and G. Oriolo. On coloring problems with local constraints, Electronic Notes in Discrete Mathematics, 35 (2009) pp. 215–220 (LAGOS, 2009)

In books:

42. Y. Faenza, G. Oriolo, G. Stauffer, and P. Ventura: Stable sets in claw-free graphs: a journey through algorithms and polytopes, in A. Ridha Mahjoub, editor, Progress in Combinatorial Optimization, Ed. Wiley-ISTE (2011), pp. 41–80

M. Teaching evaluations and class enrollment For the evaluations, we report, in each category (median, average) score. Maximum score is 5. We also report the % of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award.

Spring 2021

- IEORE6614 Optimization II. Enrollment: 15.
 Amount learned: (5, 4.63), Appropriateness of Workload: (5, 4.38),
 Fairness of Grading Process: (5, 4.5), Overall quality: (5, 4.75),
 Organization and Preparation of the Instructor: (5, 4.88),
 Classroom Delivery of the Instructor: (5, 4.88),
 Approachability of the Instructor: (5, 4.88),
 Overall Quality of the Instructor: (5, 4.88),
 % of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 62.

Fall 2020: Not teaching.

Spring 2020

- IEORE6614 Optimization II. Enrollment: 15. Evaluations not collected.
- IEORE4008 Computational Discrete Optimization. Enrollment: 16. Evaluations not collected.

Fall 2019: Not teaching.

Spring 2019

- IEORE6614 Optimization II. Enrollment: 15.
 Amount learned: (5, 4.64), Appropriateness of Workload: (5, 4.73),
 Fairness of Grading Process: (5, 4.91), Overall quality: (5, 4.91),
 Organization and Preparation of the Instructor: (5, 4.91),
 Classroom Delivery of the Instructor: (5, 4.91),
 Approachability of the Instructor: (5, 5),
 Overall Quality of the Instructor: (5, 5),
 % of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 100.
- IEORE4008 Computational Discrete Optimization. Enrollment: 17.
 Amount learned: (4, 4.53), Appropriateness of Workload: (4, 4.40),
 Fairness of Grading Process: (5, 4.27), Overall quality: (4, 4.47),
 Organization and Preparation of the Instructor: (5, 4.8),
 Classroom Delivery of the Instructor: (5, 4.87),
 Approachability of the Instructor: (5, 4.87),
 Overall Quality of the Instructor: (5, 4.87),
 % of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 71.

Fall 2018

- IEORE4004 Optimization Models and Methods. Enrollment: 108.
 Amount learned: (4, 4.21), Appropriateness of Workload: (4, 4.04),
 Fairness of Grading Process: (5, 4.21), Overall quality: (4, 4.25),

Organization and Preparation of the Instructor: (5, 4.49),
Classroom Delivery of the Instructor: (5, 4.28),
Approachability of the Instructor: (5, 4.49),
Overall Quality of the Instructor: (5, 4.44),
% of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 71.

Spring 2018

- IEORE6614 Optimization II. Enrollment: 20.
Amount learned: (5, 4.79), Appropriateness of Workload: (5, 4.57),
Fairness of Grading Process: (5, 4.79), Overall quality: (5, 4.79),
Organization and Preparation of the Instructor: (5, 4.93),
Classroom Delivery of the Instructor: (5, 4.71),
Approachability of the Instructor: (5, 5),
Overall Quality of the Instructor: (5, 4.79),
% of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 57.
- IEORE4008 Computational Discrete Optimization. Enrollment: 21.
Amount learned: (5, 4.92), Appropriateness of Workload: (5, 4.92),
Fairness of Grading Process: (5, 4.83), Overall quality: (5, 4.92),
Organization and Preparation of the Instructor: (5, 5),
Classroom Delivery of the Instructor: (5, 4.92),
Approachability of the Instructor: (5, 5),
Overall Quality of the Instructor: (5, 4.92),
% of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 75.

Fall 2017

- IEORE4004 Optimization Models and Methods. Enrollment: 96.
Amount learned: (5, 4.79), Appropriateness of Workload: (5, 4.64),
Fairness of Grading Process: (5, 4.51), Overall quality: (5, 4.72),
Organization and Preparation of the Instructor: (5, 4.87),
Classroom Delivery of the Instructor: (5, 4.77),
Approachability of the Instructor: (5, 4.85),
Overall Quality of the Instructor: (5, 4.87),
% of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 83.

Spring 2017

- IEORE8100 Introduction to Discrete Optimization. Enrollment: 14.
Amount learned: (5, 4.50), Appropriateness of Workload: (4, 4.17),
Fairness of Grading Process: (4, 4.08), Overall quality: (4.5, 4.42),
Organization and Preparation of the Instructor: (4.5, 4.25),

Classroom Delivery of the Instructor: (4, 4.08),
Approachability of the Instructor: (5, 4.58),
Overall Quality of the Instructor: (4.5, 4.5),
% of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 50.

- IEOREE4573 Computational Discrete Optimization. Enrollment: 7.

Amount learned: (5, 4.80), Appropriateness of Workload: (5, 4.20),
Fairness of Grading Process: (5, 4.60), Overall quality: (5, 4.80),
Organization and Preparation of the Instructor: (5, 5),
Classroom Delivery of the Instructor: (5, 5),
Approachability of the Instructor: (5, 5),
Overall Quality of the Instructor: (5, 4.8),
% of student voters nominating the instructor for the SEAS Distinguished Faculty Teaching Award: 60.