

Raghav Singal

Columbia University

500 West 120th Street, Mudd 315, New York, NY, 10027
rs3566@columbia.edu <http://www.columbia.edu/~rs3566/>

Education

Columbia University

PhD, Operations Research 2015 -
Advisors: Omar Besbes, Vineet Goyal, and Garud Iyengar
Cheung-Kong Graduate School of Business Fellow

University of Toronto

BASc, Industrial Engineering 2010 - 2015

Publications

Shapley meets uniform: An axiomatic framework for attribution in online advertising

Raghav Singal, Omar Besbes, Antoine Desir, Vineet Goyal, and Garud Iyengar
Under review in *Management Science*
Preliminary version appeared in *WWW*, 2019

A finite time analysis of temporal difference learning with linear function approximation

Jalaj Bhandari, Daniel Russo, and Raghav Singal
Minor revision in *Operations Research*
Extended abstract appeared in *COLT*, 2018

How to play fantasy sports strategically (and win)

Martin B. Haugh and Raghav Singal
Major revision in *Management Science*
Preliminary version was a finalist in *MIT Sloan Sports Analytics Conference*, 2018

A Bayesian regression approach to handicapping tennis players based on a rating system

Timothy C. Y. Chan and Raghav Singal
Journal of Quantitative Analysis in Sports, 2018

A Markov Decision Process-based handicap system for tennis

Timothy C. Y. Chan and Raghav Singal
Journal of Quantitative Analysis in Sports, 2016

Teaching Experience

Instructor

Optimization models and methods, Graduate (Columbia), Rated 4.50/5 Spring 2019

Co-instructor

Introduction to algorithms, Science Honors Program (Columbia) Fall 2018
Graph theory by example, Science Honors Program (Columbia) Spring 2018

Teaching assistant

Optimization models and methods, Graduate (Columbia), Rated 4.63/5 Fall 2015, 2016, 2017
Applied integer programming, Undergraduate (Columbia), Rated 4.49/5 Spring 2016, 2017

Presentations

Manufacturing & Service Operations Management (MSOM) Conference	2019
Revenue Management & Pricing (RMP) Conference	2019
Canadian Operational Research Society (CORS) Annual Conference	2018, 2019
The Web Conference (WWW)	2019
Production & Operations Management Society (POMS) Annual Conference	2019
Institute for Operations Research & the Management Sciences (INFORMS) Annual Meeting	2018
Trans-Atlantic Doctoral Conference (TADC) at London Business School	2018
Sloan Sports Analytics Conference (SSAC) at MIT	2018
New England Symposium on Statistics in Sports (NESSIS) at Harvard	2017

Awards and Scholarships

Academic and Research:

Cheung-Kong Graduate School of Business Fellowship (Columbia)	2018, 2019
Highly Commended (The Undergraduate Awards)	2015
Best Poster Award at MIE Research Symposium (University of Toronto)	2015
MIE Summer Award (University of Toronto)	2015
Dan Cornacchia/Ernst and Young Scholarship (University of Toronto)	2013
University of Toronto Excellence Award	2013
University of Toronto Scholar	2011

Teaching:

Outstanding Teaching Assistant Award (Columbia)	2018
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Industry Experience

Adobe, Data scientist intern (Media and Advertising Solutions)	Summer 2017
Ontario Teachers' Pension Plan, Quantitative research co-op (Asset Mix and Risk)	2013 - 2014

References

Omar Besbes

Associate Professor
Columbia University
obesbes@columbia.edu
+1-212-854-5638

Vineet Goyal

Associate Professor
Columbia University
vg2277@columbia.edu
+1-212-854-0345

Martin Haugh

Associate Professor
Imperial College
m.haugh@ic.ac.uk
+44-0-20-7594-1819

Garud Iyengar

Professor
Columbia University
garud@ieor.columbia.edu
+1-212-854-4594

Daniel Bienstock (teaching)

Liu Family Professor
Columbia University
dano@columbia.edu
+1-212-854-3407