

IGNACIO RIOS

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ACADEMIC APPOINTMENTS

Assistant Professor of Operations Management

Naveen Jindal School of Management, University of Texas at Dallas

2020-

EDUCATION

Stanford University

PhD Candidate in Operations, Information and Technology

2020

Advisor: Daniela Saban

Stanford University

Master in Economics

2020

University of Chile

Master in Operations Management

2014

Industrial Engineering (MS in Industrial Engineering equivalent)

2013

BS in Industrial Engineering

2011

INTERESTS

Market design, matching, behavioral operations.

RESEARCH

Working papers

1. **Competition in Sequential Search**, with P. Ghosh. Accepted at *Manufacturing & Service Operations Management*.
2. **Behavioral Externalities of Process Automation in Sequential Tasks**, with R. Beer and A. Qi. Minor revision at *Management Science*. First Place, Best Working Paper - Behavioral Operations, 2023.
3. **Capacity Planning in Stable Matching: An Application to School Choice**, with F. Bobbio, M. Carvalho, A. Lodi and A. Torrico. Major revision at *Operations Research*. Second Place, CORS Student Paper Competition, 2023.
4. **College Application Mistakes and the Design of Information Policies at Scale**, with T. Larroucau, A. Fabre, and C. Nielson. Revise and Resubmit to *Journal of Political Economy*.
5. **Dynamic College Admissions**, with T. Larroucau. Reject and resubmit at *Econometrica*.
6. **Two-Sided Assortment Optimization with Simultaneous and Sequential Matches**, with A. Torrico. Submitted to *Manufacturing & Service Operations Management*.
7. **Improving Collaborations in Sequential Projects**, with R. Beer and A. Qi. Submitted to *Management Science*.

8. **Stable Matching with Contingent Priorities**, with F. Bobbio, M. Carvalho and A. Torrico. Soon to be submitted to *Management Science*.
9. **Designing Charity Donation Systems**, with P. Ghosh and A. Qi. Soon to be submitted to *Management Science*.

Work in progress

1. **Strategic Behavior in the Chilean College Admissions Problem**, with T. Larroucau.

Publications

1. **Improving Match Rates in Dating Markets through Assortment Optimization**, with D. Saban and F. Zheng. *Manufacturing & Service Operations Management*, 25 (4), 1304-1323, 2023.
Preliminary version in Proc. of the 22th ACM conference on Economics and Computation, 2021.
Second Place (Honorable Mention), M&SOM Practice Based Competition, 2021.
2. **School Choice in Chile**, with J. Correa, R. Epstein, J. Escobar, B. Bahamondes, C. Bonet, N. Epstein, N. Aramayo, M. Castillo, A. Cristi, B. Epstein, F. Subiabre. *Operations Research*, 70 (2), 1066-1087, 2022.
Preliminary version in Proc. of the 20th ACM conference on Economics and Computation, 2019.
Finalist, Euro Excellence in Operations Award, 2019.
Finalist, IFORS Prize for OR in Development, 2020.
3. **Improving the Chilean College Admissions System**, with T. Larroucau and G. Parra and R. Cominetti. *Operations Research*, 69 (4), 1015-1348, 2021.
First Place, Doing Good with Good OR - Student Paper Competition, 2018
4. **Increased Transparency in Procurement: the Role of Peer-Effects**, with R. Beer and D. Saban. *Management Science*, 67 (12), 7291-7950, 2021.
Second Place, Best Working Paper - Behavioral Operations, 2018
5. **Building a stochastic programming model from scratch: A harvesting management example**, with A. Weintraub and R. J-B Wets. *Quantitative Finance*, 16 (2), 189-199, 2016.
6. **Multi-period forecasting and scenario generation with limited data**, with R. J-B. Wets and D. Woodruff. *Computational Management Science*, 12 (2), 267-295, 2015.
7. **Modeling and estimating commodity prices**, with R. J-B. Wets. *Mathematics and Financial Economics*, 9 (4), 247-270, 2015.
8. **Toward Scalable Stochastic Unit Commitment - Part 1: Load Scenario Generation**, with Y. Feng, S. Ryan, K. Spürkel, J.P. Watson, R. J-B. Wets, and D. Woodruff. *Energy Systems*, 6 (3), 309-329, 2015.
9. **Effect of Including High-School Grades in the Admission Process to Chilean Universities**, with A. Mizala and T. Larroucau. *Pensamiento Educativo*, 52 (1), 95-118, 2015.
10. **Stochastic Unit Commitment at ISO Scale, an ARPae project**, with K. Cheung, Y. Feng, D. Gade, Y. Lee, C. Monroy, F. Rüdel, S. Ryan, J.P. Watson, R. Wets and D. Woodruff. *In Proceedings of the IEEE Power & Energy Society*, 2013.

Other working papers

Inactive

1. **Two-Sided Matching with Ties and Flexible Quotas**, with T. Larroucau, G. Parra and R. Cominetti.
2. **Using stochastic programming with spatial scenarios to inform management of flammable forest landscapes**, with D. Martell, R. J-B. Wets, D. Woodruff and A. Weintraub.

TEACHING EXPERIENCE

University of Texas at Dallas

- Undergraduate Operations Management *2020-2022*
- Graduate Spreadsheet modeling *2022-2024*

Stanford University

- MBA Optimization, Simulation and Modeling, Teaching Assistant *2016-2018*
- MBA Online Marketplaces, Teaching Assistant *2018*

University of Chile

- Stochastic Processes, Teaching Assistant *2011-2012*
- Optimization, Teaching Assistant *2012*
- Operations Management, Teaching Assistant *2012*
- Introduction to Economics, Teaching Assistant *2011*

HONORS

Awards

- Sydney Smith Hicks Faculty Fellowship. *2024*
- Winner Owlle Best Graduate Teaching Award. *2024*
- First place in BOM Best Working Paper Competition. *2023*
- Second place (Honorable Mention) CORS Student Paper Competition. *2023*
- Second place (runner-up) IFORS Prize for OR in Development. *2021*
- Second place (Honorable Mention) M&SOM Practice Based Competition. *2021*
- Finalist Owlle Best Undergraduate Teaching Award. *2021*
- Finalist in Excellence in Practice Award, EURO. *2019*
- First place in Doing Good with Good OR Competition. *2018*
- Second place in BOM Best Working Paper Competition. *2018*
- Community Impact Award, Stanford University.
Award conferred to 20 students across all graduate programs. *2018*
- Jaedicke Award, GSB, Stanford University. *2015*
- Best Teaching Assistant, Dept. of Industrial Engineering, University of Chile.
Award conferred to one student every year. *2013*
- Community Award, Dept. of Industrial Engineering, University of Chile.
Award conferred to one student per cohort every year. *2011-2012*
- Outstanding Student Award, School of Engineering, University of Chile
Award conferred to the top 10% of students every year. *2007-2011*

Fellowships and Grants

- Stanford GSB Fellowship *2015-2020*
- FONDEF ID15I10468 - Desarrollo de Tecnologías para la Admisión Escolar. *2016-2018*
- CONICYT Fellowship for Master Studies. *2013*

PRESENTATIONS

2023 Vanderbilt Owen, Duke Fuqua School of Management, POMS Annual Meeting, M&SOM Annual Meeting, BOC, INFORMS Annual Meeting.

2022 Rotman Young Scholar Seminar Series, Workshop in Management Science, INFORMS Annual Meeting, Indianapolis, IL.

2021 M&SOM Annual Meeting, EC Conference, IFORS Meeting, INFORMS Annual Meeting, Anaheim, CA.

2020 MIT, University of Chile, Pontificia Universidad Catolica, UT Dallas, INFORMS Annual Meeting, Virtual.

2019 EC Conference, Phoenix, AZ., INFORMS Annual Meeting, Seattle, WA.

2018 MSOM Conference, Dallas, TX; Behavioral Operations Conference, Dallas, TX; INFORMS Annual Meeting, Phoenix, AZ.

2017 INFORMS Annual Meeting, Houston, TX.

SERVICE AND ORGANIZATIONS

Reviewer	Management Science, MSOM, Operations Research, POMS, Mathematical Programming, International Economic Review, Mathematicsof Operations Research, EC conference, EAAMO conference.
Professional Organizations	Informs, MSOM.

OTHER INFORMATION

Idioms	Spanish, English and French.
Programming	Python, Julia
Data Analysis	Stata, R, SQL
Writing Tools	Latex, Office
Patents	G-Match, patent number N 254.243