

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, resource allocation, behavioral operations.

RESEARCH

Working papers

1. **Increased Transparency in Procurement: the Role of Peer-Effects**, with R. Beer and D. Saban.
Forthcoming in *Management Science*.
Second Place, Best Working Paper - Behavioral Operations, 2018
2. **Improving the Chilean College Admissions System**, with T. Larroucau and G. Parra and R. Cominetti.
Forthcoming in *Operations Research*.
First Place, Doing Good with Good OR - Student Paper Competition, 2018
3. **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.
Forthcoming in *Operations Research*.
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.
4. **Improving Match Rates in Dating Markets through Assortment Optimization**, with D. Saban and F. Zheng.
Major Revision in *Manufacturing & Service Operations Management*.
Preliminary version in Proc. of the 22th ACM conference on Economics and Computation, 2021.
Second Place (Honorable Mention), M&SOM Practice Based Competition, 2021.

5. **Dynamic College Admissions and the Determinants of Students' College Retention**, with T. Larroucau.
6. **Strategic Behavior in the Chilean College Admissions Problem**, with T. Larroucau.
7. **Mistakes in College Admissions**, with T. Larroucau and C. Nielson.

Work in progress

1. **Scoring Systems in Two-Sided Platforms**, with A. Thakur.

Published papers

1. **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.
2. **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.
3. **Modeling and estimating commodity prices**, with R. J-B. Wets. *Mathematics and Financial Economics*, 9 (4), 247-270, 2015.
4. **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.
5. **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.
6. **Stochastic Unit Commitment at ISO Scale, an ARP Ae 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 2020-2021

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

- 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

- 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

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| Reviewer | Management Science, MSOM, Operations Research, Mathematical Programming, International Economic Review, EC conference. |
| Professional Organizations | Inform, MSOM. |

OTHER INFORMATION

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| Idioms | Spanish, English and French. |
| Programming | Python, Julia |
| Data Analysis | Stata, R, SQL |
| Writing Tools | Latex, Office |