

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. **Dynamic College Admissions and the Determinants of Students' College Retention**, with T. Larroucau. Reject and resubmit at *Econometrica*.
2. **Capacity Planning in Stable Matching: An Application to School Choice**, with F. Bobbio, M. Carvalho, A. Lodi and A. Torrico. To be submitted to *Management Science*.
3. **Two-Sided Assortment Optimization with Simultaneous and Sequential Matches**, with A. Torrico and V. Verdugo.
4. **Strategic Behavior in the Chilean College Admissions Problem**, with T. Larroucau.
5. **Mistakes in College Admissions**, with A. Fabre, T. Larroucau and C. Nielson.

Work in progress

1. **Behavioral Externalities of Process Automation in Sequential Tasks**, with R. Beer and A. Qi.
2. **Competition in Sequential Search**, with P. Ghosh.
3. **Stable Matching with Dynamic Priorities**.

Selected Publications

1. **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
2. **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
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. *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.
4. **Improving Match Rates in Dating Markets through Assortment Optimization**, with D. Saban and F. Zheng.
Forthcoming 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.

Other Publications

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 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

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. 2018
Award conferred to 20 students across all graduate programs.
- Jaedicke Award, GSB, Stanford University. 2015
- Best Teaching Assistant, Dept. of Industrial Engineering, University of Chile. 2013
Award conferred to one student every year.
- Community Award, Dept. of Industrial Engineering, University of Chile. 2011-2012
Award conferred to one student per cohort every year.
- Outstanding Student Award, School of Engineering, University of Chile 2007-2011
Award conferred to the top 10% of students every year.

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, POMS, Mathematical Programming, International Economic Review, EC conference. |
| Professional Organizations | Inform, 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