

# IGNACIO RIOS

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## ACADEMIC APPOINTMENTS

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### Assistant Professor of Operations Management

Naveen Jindal School of Management, University of Texas at Dallas

2020-

## EDUCATION

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### 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

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Market design, matching, resource allocation, behavioral operations.

## RESEARCH

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### Working papers

1. **Dynamic College Admissions and the Determinants of Students' College Retention**, with T. Larroucau. Under review in *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

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##### 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

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### 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

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**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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| <b>Reviewer</b>                   | Management Science, MSOM, Operations Research, POMS, Mathematical Programming, International Economic Review, EC conference. |
| <b>Professional Organizations</b> | Inform, MSOM.  |

## OTHER INFORMATION

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