

IGNACIO RIOS

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EDUCATION

Stanford University

PhD in Operations, Information and Technology 2020

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.
Minor Revision 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.
Minor Revision 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.
Major Revision 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. **Strategic Behavior in the Chilean College Admissions Problem**, with T. Larroucau.

Work in progress

1. **Optimizing Assortments in Two-sided Markets: An Application to Dating**, with D. Saban and F. Zheng.
2. **Mistakes in College Admissions**, with T. Larroucau and C. Nielson.
3. **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 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

Stanford University

- MBA Optimization, Simulation and Modelling, 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

- IFORS Prize for OR in Development. 2020
- 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

CONFERENCES

- 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.

EXPERIENCE

Two-Match Consulting 2014-2015
Co-Founder

- Design of algorithms and software to solve matching problems in college admissions environments.

Department of Industrial Engineering, University of Chile 2014-2015
Research Assistant

- Modelling uncertainty in problems involving natural resources.

Department of Mathematics, UC Davis 2013-2014
Research Assistant

- Modelling uncertainty on demand for electricity and solution of unit-commitment problem.

OTHER INFORMATION

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