IGNACIO RIOS

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EDUCATION

Stanford University
PhD Candidate in Operations, Information and Technology *Present*
Advisor: Daniela Saban

Stanford University
Master in Economics *Present*

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

Work in progress

1. **Two-sided Assortment Optimization**, with D. Saban.
2. **Mistakes in College Admissions**, with T. Larroucau and C. Nielson.
3. **Scoring Systems in Two-Sided Platforms**, with A. Thakur.

Working papers

1. **Increased Transparency in Procurement: the Role of Peer-Effects**, with R. Beer and D. Saban. Major 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 with J. Correa, R. Epstein, J. Escobar, B. Bahamondes, C. Bonet, N. Epstein, N. Aramayo, M. Castillo, A. Cristi, B. Epstein, F. Subiabre. Submitted to *Operations Research*.
   Preliminary version in Proc. of the 20th ACM conference on Economics and Computation, 2019.
   Finalist, Euro Excellence in Operations Award, 2019.
4. **Strategic Behavior in the Chilean College Admissions Problem**, with T. Larroucau.

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. Sprkel, 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 with K. Cheung, Y. Feng, D. Gade, Y. Lee, C. Monroy, F. Rdel, 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

· 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. *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 Tecnologas para la Admisin Escolar. *2016-2018*
· CONICYT Fellowship for Master Studies. *2013*

CONFERENCES

2019 EC Conference, Phoenix, AZ.
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

REFERENCES

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