

# IGNACIO RIOS

754 Post Street, San Francisco, CA, 94109  
(+1)650-665-4569 ♦ iriosu@stanford.edu ♦ iriosu.github.io

## EDUCATION

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### Stanford University

PhD Candidate in Operations, Information and Technology  
Advisor: Daniela Saban

*Present*

### 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

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Market design, matching, resource allocation, behavioral operations.

## RESEARCH

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### 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 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.

### 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. 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 ARP Ae project**, 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

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### 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

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### 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.  
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

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**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

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**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

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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

## REFERENCES

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### Daniela Saban

Operations, Information and Technology  
Graduate School of Business  
Stanford University  
Stanford, CA  
dsaban@stanford.edu

### Gabriel Weintraub

Operations, Information and Technology  
Graduate School of Business  
Stanford University  
Stanford, CA  
gweintra@stanford.edu

### Jose Correa

Departamento de Ingeniería Industrial  
Facultad de Ciencias Físicas y Matemáticas  
Universidad de Chile  
Santiago, RM  
correa@uchile.cl