IGNACIO RIOS

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ADADEMIC 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, behavioral operations.

RESEARCH

Under Review

1. **Capacity Planning in Stable Matching: An Application to School Choice**, with F. Bobbio, M. Carvalho, A. Lodi and A. Torrico. Major revision at *Operations Research*.
   Preliminary version in Proc. of the 24th ACM conference on Economics and Computation, 2023.
   Second Place, CORS Student Paper Competition, 2023.

2. **Platform Design in Curated Dating Markets**, with A. Torrico. Major revision at *Manufacturing & Service Operations Management*.

3. **College Application Mistakes and the Design of Information Policies at Scale**, with T. Larroucau, A. Fabre, and C. Nielson. Revise and Resubmit to *Journal of Political Economy*.

4. **Dynamic College Admissions**, with T. Larroucau. Reject and resubmit at *Econometrica*.

5. **Stable Matching with Contingent Priorities**, with F. Bobbio, M. Carvalho and A. Torrico. Under Review at *Management Science*.

Working Papers

1. **Improving Collaborations in Sequential Projects**, with R. Beer and A. Qi.

2. **Designing Charity Donation Systems**, with P. Ghosh and A. Qi.

3. **Strategic Behavior in the Chilean College Admissions Problem**, with T. Larroucau.

Work in Progress

1. **Platform Complexities and their Implications for Application Mistakes**, with T. Larroucau, M. Martinez, and C. Neilson.

2. **Incentivizing Help Behavior in Teams**, with R. Beer and A. Qi.

3. **Designing Charity Donation Systems: Behavioral Insights**, with P. Ghosh and A. Qi.

4. **Optimal Design of Search Platforms: Behavioral Insights**.

Publications

1. **Behavioral Externalities of Process Automation in Sequential Tasks**, with R. Beer and A. Qi. Forthcoming at *Management Science*.

2. **Competition in Sequential Search**, with P. Ghosh. Forthcoming at *Manufacturing & Service Operations Management*.
   First Place, Best Working Paper - Behavioral Operations, 2023.

3. **Improving Match Rates in Dating Markets through Assortment Optimization**, with D. Saban and F. Zheng. *Manufacturing & Service Operations Management*, 25 (4), 1304-1323, 2023.
   Preliminary version in Proc. of the 22th ACM conference on Economics and Computation, 2021.
   Second Place (Honorable Mention), M&SOM Practice Based Competition, 2021.

4. **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.

5. **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

6. **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

7. **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.

8. **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.

9. **Modeling and estimating commodity prices**, with R. J-B. Wets. *Mathematics and Financial Economics*, 9 (4), 247-270, 2015.

10. **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.

11. **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.

12. **Stochastic Unit Commitment at ISO Scale, an ARPAe project**, with 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*
· Graduate Spreadsheet modeling   *2022-2024*

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
· Sydney Smith Hicks Faculty Fellowship.   *2024*
· Winner Owlie Best Graduate Teaching Award.   *2024*
· First place in BOM Best Working Paper Competition.   *2023*
· Second place (Honorable Mention) CORS Student Paper Competition.   *2023*
· Second place (runner-up) IFORS Prize for OR in Development.   *2021*
· Second place (Honorable Mention) M&SOM Practice Based Competition.   *2021*
· Finalist Owlie 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.
    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*

PRESENTATIONS

2024 EURO, INFORMS Annual Meeting.

2023 Vanderbilt Owen, Duke Fuqua School of Management, POMS Annual Meeting, M&SOM Annual Meeting, BOC, INFORMS Annual Meeting.

2022 Rotman Young Scholar Seminar Series, Workshop in Management Science, INFORMS Annual Meeting, Indianapolis, IL.

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

Competitions	Chair for 2024 BOM Best Working Paper Competition.
Reviewer	Management Science, MSOM, Operations Research, POMS,
	Mathematical Programming, International Economic Review,
	Mathematicsof Operations Research,
	EC conference, EAAMO conference.
Professional Organizations	Informs, MSOM, POMS.
	Informs Section Auctions and Market Design, Treasurer.

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