

Ignacio Rios

Academic Appointments

2020– **Assistant Professor of Operations Management**, *Naveen Jindal School of Management, University of Texas at Dallas*






Education

2020 **PhD in Operations, Information and Technology**, *Stanford University*
2020 **Master in Economics**, *Stanford University*
2014 **Master in Operations Management**, *University of Chile*
2013 **Industrial Engineering (MS equivalent)**, *University of Chile*
2011 **BS in Industrial Engineering**, *University of Chile*







Research

Publications

1. Capacity Planning in Stable Matching: An Application to School Choice, with F. Bobbio, M. Carvalho, A. Lodi, and A. Torrico.
📖 **Operations Research** (forthcoming).
🏆 Second Place, CORS Student Paper Competition, 2023.
2. Behavioral Externalities of Process Automation in Sequential Tasks, with R. Beer and A. Qi.
📖 **Management Science** (forthcoming).
3. Competition in Sequential Search, with P. Ghosh.
📖 **M&SOM**, 26(6):2256–2273, 2024.
🏆 First Place, Best Working Paper – Behavioral Operations, 2023.
4. Improving Match Rates in Dating Markets through Assortment Optimization, with D. Saban and F. Zheng.
📖 **M&SOM**, 25(4), 1304–1323, 2023.
🏆 Second Place, M&SOM Practice Based Competition, 2021.
5. School Choice in Chile, with J. Correa, N. Epstein, R. Epstein, J. Escobar, B. Bahamondes, C. Bonet, N. Epstein, N. Aramayo, M. Castillo, A. Cristi, B. Epstein, and F. Subiabre.
📖 **Operations Research**, 70(2), 1066–1087, 2022.
🏆 Finalist, Euro Excellence in Operations Award, 2019.
🏆 Finalist, IFORS Prize for OR in Development, 2020.
6. Improving the Chilean College Admissions System, with T. Larroucau, G. Parra, and R. Cominetti.
📖 **Operations Research**, 69(4), 1015–1348, 2021.
🏆 First Place, Doing Good with Good OR, 2018.
7. 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.

8. 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.
9. 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.
10. Modeling and estimating commodity prices, with R. J-B. Wets.
 **Mathematics and Financial Economics**, 9(4), 247-270, 2015.
11. Toward Scalable Stochastic Unit Commitment - Part 1: Load Scenario Generation, with Y. Feng, S. Ryan, K. Spürkel, J.P. Watson, R.J. Wets and D. Woodruff.
 **Energy Systems**, 6(3), 309-329, 2015.
12. 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.
13. Stochastic Unit Commitment at ISO Scale, with K. Cheung, Y. Feng, D. Gade, Y. Lee, C. Monroy, F. Rüdel, J.P. Watson, R.J. Wets, and D. Woodruff.
 **Proc. of the IEEE Power & Energy Society**, 2013.

Under Review

1. Designing Effective Fundraising Campaigns, with P. Ghosh and A. Qi.
 Major revision at **M&SOM**.
2. Stable Matching with Contingent Priorities, with F. Bobbio, M. Carvalho, and A. Torrico.
 Reject & Resubmit at **Management Science** (resubmitted).
3. Platform Design in Curated Dating Markets, with A. Torrico.
 Major revision at **M&SOM** (resubmitted).
4. College Application Mistakes and the Design of Information Policies at Scale, with T. Larroucau, A. Fabre, and C. Nielson.
 Revise & Resubmit at **Journal of Political Economy** (resubmitted).
5. Dynamic College Admissions, with T. Larroucau.
 Reject & Resubmit at **Econometrica**.
6. Team Building and Incentive Schemes in Collaborative Projects, with R. Beer and A. Qi.
 Reject & Resubmit at **M&SOM**.

Working Papers

1. Strategic Behavior in the Chilean College Admissions Problem, with T. Larroucau., C. Campos and R. Lee.
2. Designing Effective Fundraising Campaigns: Behavioral Insights, with P. Ghosh and A. Qi.
3. Incentive Design for Long-Term Retention of New Gig Workers, with N. Epstein.

Work in Progress

1. Platform Complexities and their Implications for Application Mistakes, with T. Larroucau, M. Martinez, and C. Nielson.
2. Optimal Design of Search Platforms: Behavioral Insights.
3. Counterfactual Explanations for Resource Allocation Problems, with J. Chua and I. Zhu.
4. Market Design for Residential Dark Warehousing, with A. Frazelle and S. Ghosal.
5. Designing Fair Admissions Policies under Exam Retaking, with R. Sharma.

6. Designing Admission Requirements: Balancing Access, Competition, and Student Outcomes, with A. Marar.

Instruction

Teaching

- 2020–2022, 2025 **Undergraduate Operations Management**, *University of Texas at Dallas*
- 2022–2025 **Graduate Spreadsheet Modeling**, *University of Texas at Dallas*
- 2016–2018 **MBA Optimization, Simulation and Modeling (TA)**, *Stanford University*
- 2018 **MBA Online Marketplaces (TA)**, *Stanford University*
- 2011–2012 **Stochastic Processes (TA)**, *University of Chile*
- 2012 **Optimization (TA)**, *University of Chile*
- 2012 **Operations Management (TA)**, *University of Chile*
- 2011 **Introduction to Economics (TA)**, *University of Chile*

Doctoral Advisement

- 2023–present Pramit Ghosh, PhD student (Primary Advisor).
- 2025–present Abhijit Marar, PhD student (Primary Advisor).
- 2025–present Rahul Sharma, PhD student (Primary Advisor).
- 2025–present Shayak Ghosal, PhD student (Co-Advisor).

Professional Recognition

Honors and Awards

- 2025 Naveen Jindal School of Management Outstanding Graduate Teacher of the Year.
- 2025 40 Under 40, Best Business School Professors, Poets & Quants.
- 2025 Nominee, President's Teaching Excellence Award in Graduate/Professional Instruction.
- 2024 Winner, Owlle Best Graduate Teaching Award.
- 2023 First Place, BOM Best Working Paper Competition.
- 2023 Second Place (Hon. Mention), CORS Student Paper Competition.
- 2021 Second Place (runner-up), IFORS Prize for OR in Development.
- 2021 Second Place (Hon. Mention), M&SOM Practice Based Competition.
- 2021 Finalist, Owlle Best Undergraduate Teaching Award.
- 2019 Finalist, Excellence in Practice Award, EURO.
- 2018 First Place, Doing Good with Good OR Competition.
- 2018 Second Place, BOM Best Working Paper Competition.
- 2018 Community Impact Award, Stanford University.
- 2015 Jaedicke Award, Stanford GSB.
- 2013 Best Teaching Assistant, University of Chile.
- 2011–2012 Community Award, University of Chile.
- 2007–2011 Outstanding Student Award, University of Chile.

Fellowships and Grants

- 2024–2025 Sydney Smith Hicks Faculty Fellowship.
- 2015–2020 Stanford GSB Fellowship.
- 2016–2018 FONDEF ID15I10468 - Desarrollo de Tecnologías para la Admisión Escolar.

2013 CONICYT Fellowship for Master Studies.

Presentations

- 2026 NUS - Department of Analytics and Operations (scheduled); INSEAD - Singapur (scheduled).
- 2025 ASSA; UCLA - Anderson; UT Dallas - Jindal; Universidad de Montevideo; BOC; M&SOM Conference; EC; Challenges in Digital Platforms Workshop, Chile; Universidad de Chile - DII; UT Austin - McCombs (scheduled); Cornell Tech (scheduled); INFORMS Annual Meeting (scheduled).
- 2024 EURO; Wisconsin - School of Business; INFORMS Annual Meeting.
- 2023 Vanderbilt University - Owen; Duke - Fuqua; POMS; M&SOM Conference; BOC; INFORMS Annual Meeting.
- 2022 Rotman Young Scholar Seminar Series; Workshop in Management Science; INFORMS Annual Meeting.
- 2021 M&SOM Conference; EC; IFORS Meeting; INFORMS Annual Meeting.
- 2020 MIT - Sloan; University of Chile; Pontificia Universidad Católica; UT Dallas - Jindal; INFORMS Annual Meeting.
- 2019 EC; INFORMS Annual Meeting.
- 2018 M&SOM Conference; BOC; INFORMS Annual Meeting.
- 2017 INFORMS Annual Meeting.

Service and Organizations

- 2024–2025 Treasurer, INFORMS Auctions and Market Design Section.
- 2025 Co-chair, BOM Best Working Paper Competition.
- 2025 PC Member, EC Conference.
- 2024 Chair, BOM Best Working Paper Competition.
- 2024 PC Member EAAMO
- 2020–2025 Reviewer for: Management Science, M&SOM, Operations Research, POMS, Mathematical Programming, International Economic Review, Mathematics of Operations Research, EC Conference, EAAMO Conference.
- 2020–2025 Member: INFORMS, MSOM, POMS, ACM.

Other Information

- Languages Spanish, English, French.
- Programming Python, Julia.
- Data Analysis Stata, R, SQL.
- Writing Tools LaTeX, Office.
- Patents G-Match, patent number N 254.243.