

Education

THE UNIVERSITY OF TEXAS AT AUSTIN, Austin, TX
Ph.D. Information, Risk, and Operations Management, 2019

NEW YORK UNIVERSITY, New York, NY
M.Phil. Operations Management, 2009

UNIVERSITY OF CHILE, Santiago, Chile
M.S. Operations Management, 2005
B.S. Industrial Engineering, 2003

Academic Professional Experience

RENSSELAER POLYTECHNIC INSTITUTE, Lally School of Management
Assistant Professor of Supply Chain and Analytics, Aug 2022 -
Dean R. Wellington '83 Teaching Professorship in Management, Aug 2022 -

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN, Gies College of Business
Visiting Assistant Professor, Jan 2022 - July 2022
Postdoctoral Research Associate, 2020 - 2021

THE UNIVERSITY OF TEXAS AT AUSTIN, McCombs School of Business
Instructor, 2015-2016
Research Assistant, 2010 - 2016

UNIVERSITY OF CHILE, Industrial Engineering Department, Santiago, Chile
Instructor, 2007
Research Assistant, 2003 - 2006

UNIVERSITY OF LOS ANDES, Faculty of Engineering, Santiago, Chile
Assistant Professor, 2005 - 2007

Other Professional Experience

RSG MEDIA, New York City, NY
Vice President of Data Science, 2016 - 2019
Optimization Scientist, 2009 - 2010

BNSF Railway, Fort Worth, TX
Optimization Scientist Intern, 2011

XEROX, Santiago, Chile
Simulation Engineer Intern, 2003

Research Interests

Sustainability, supply chain management, media analytics, data-driven optimization, machine learning, econometrics.

Published and Accepted Papers

Souyris, S., S. Seshadri, and S. Subramanian (2022) Scheduling Advertisements on Cable Television. Accepted in *Operations Research*. **INFORMS RM&P Section Practice Award 2022, First prize.**

Souyris, S., S. Hao, S. Bose, A.C. England III, A. Ivanov, U. K. Mukherjee, and S. Seshadri (2022) Detecting and mitigating simultaneous waves of COVID-19 infections. *Nature Scientific Reports*, 12, 16727.

Mukherjee, U. K., S. Bose, A. Ivanov, S. Seshadri, S. Souyris, P. Sridhar, R. Watkins, and Y. Xu (2021) Evaluation of reopening strategies for educational institutions during COVID-19 through agent based simulation. *Nature Scientific Reports*, 11, 6264.

Bose, S., S. Souyris, A. Ivanov, U. Mukherjee, S. Seshadri, and Y. Xu (2021) Control of Epidemic Spreads via Testing and Lock-Down. *60th IEEE Conference on Decision and Control*, pp. 4272-4279.

Alarcón, D. Saure, A. Weintraub, R. Wolf-Yadlin, G. Zamorano, L. Ramírez, G. Durán, M. Guajardo, J. Miranda, M. Ramírez, M. Siebert, and S. Souyris (2017) Operations Research Transforms Scheduling of Chilean Soccer Leagues and South American World Cup Qualifiers. *Interfaces*, 47: 52–69. **INFORMS Franz Edelman Award 2016, Finalist.**

Cortés, C. E., M. Gendreau, L. M. Rousseau, S. Souyris, and A. Weintraub (2014) Branch-and-Price and Constraint Programming for Solving a Real-Life Technician Dispatching Problem. *European Journal of Operational Research*, 238 (1): 300–312.

Souyris, S., C. E. Cortés, F. Ordoñez, and A. Weintraub (2013) A Robust Optimization Approach to Dispatching Technicians under Stochastic Service Times. *Optimization Letters*, 7: 1549–1568.

Durán, G., M. Guajardo, J. Miranda, D. Sauré, S. Souyris, A. Weintraub, and R. Wolf (2007) Scheduling the Chilean Soccer League by Integer Programming. *Interfaces* 37 (6): 539–552. **EURO Excellence in Practice Award 2009, Finalist.**

Noronha, T. F., C. C. Ribeiro, G. Durán, S. Souyris, and A. Weintraub (2007) A Branch-and-Cut Algorithm for Scheduling the Highly-Constrained Chilean Soccer Tournament. *Practice and Theory of Automated Timetabling VI, Lecture Notes in Computer Science*, 3867:174–186.

Under Review

Ivanov, A., Z. Tacheva, S. Souyris, A. Alzaidan, S. Seshadri, and A. C. III England. Informational Value of Visual Nudges During Crises: Improving Public Health Outcomes Through Social Media Engagement Amid Covid-19. Major revision in *Production and Operations Management*.

Working Papers

Souyris, S., A. Balakrishnan, J. Duan, and V. Rai. Network Effects on the Diffusion of Residential Solar Power Systems: A Dynamic Discrete Choice Approach.

Hao, S., Y. Xu , U. K. Mukherjee, S. Souyris, S. Seshadri, A. Ivanov, M. E. Ahsen. Hotspots for Emerging Epidemics: Multi-Task and Transfer Learning over Mobility Networks.

Souyris, S., and J. Miranda. Scheduling Shows on Broadcast Television.

Teaching Experience

Business Analytics II, Gies College of Business, University of Illinois at Urbana–Champaign (Spring 2022).

Fundamentals of Operations Management, Gies College of Business, University of Illinois at Urbana–Champaign (Fall 2020, 2021).

Elementary Business Statistics, McCombs School of Business, The University of Texas at Austin (Fall 2015).

Operations Management, McCombs School of Business, The University of Texas at Austin (Fall 2012).

Optimization, Department of Industrial Engineering, University of Chile (Fall 2007).

Stochastic Models, Faculty of Engineering, University of Los Andes (Fall 2007).

Optimization, Faculty of Engineering, University of Los Andes (Fall 2006, Spring 2006).

Honors and Awards

First prize INFORMS RM&P Section Practice Award 2022.

INFORMS Franz Edelman Laureate 2016.

The University of Texas at Austin, Graduate School, Dissertation Writing Fellowship, 2016.

Fellowship for Graduate Studies, The University of Texas at Austin, McCombs School of Business, 2010-2015

Doctor Cooper Fellowship for Strong Doctoral Student Research, The University of Texas at Austin, McCombs School of Business, 2011.

Finalist EURO Excellence in Practice Award 2009.

Fellowship Graduate Studies, New York University, Stern School of Business, 2007-2008.

Chilean government fellowship, “Beca Gestion Propia”, Conicyt (declined), 2007.

Grants

Co-PI, Gies College of Business. How to Facilitate Business Continuity by Addressing Supply Chain Constraints Caused by COVID-19?, 2021

Co-PI, Jump ARCHES. How to design and operate end-to-end vaccine deployment using social media, addressing supply chain allocation constrains, and utilizing telemedicine?, 2021. <https://jumpsimulation.org/research-innovation/research>

Co-PI, C3.ai Digital Transformation Institute, grant to mitigate COVID-19 and future pandemics, 2020. <https://c3dti.ai/research/projects/>