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Education

THE UNIVERSITY OF TEXAS AT AUSTIN, McCombs School of Business
Ph.D. Information, Risk, and Operations Management, 2019

NEW YORK UNIVERSITY, Stern School of Business
M.Phil. Operations Management, 2009

UNIVERSITY OF CHILE, Faculty of Physical and Mathematical Sciences
M.S. Operations Management, 2005 (Highest Honors)
B.S. Industrial Engineering, 2003 (Highest Honors)

Academic Professional Experience

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN, Gies College of Business
Postdoctoral Research Associate, 2020-present
Instructor, 2020-present

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

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

RSG MEDIA, New York City, NY
Optimization Scientist, 2009-2010

XEROX, Santiago, Chile
Simulation Engineer Intern, 2003

Research Interests

Operational issues associated with environmental and human sustainability, supported by practice-driven optimization, machine learning, and economic analysis.

Published and Accepted Papers

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, *Scientific Reports*, 11, 6264.

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

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. Finalist INFORMS Franz Edelman Award 2016.

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. Finalist EURO Excellence in Practice Award 2009.

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

Souyris, S., S. Seshadri, and S. Subramanian (2021). Scheduling Advertisements on Cable Television. Under minor revision in *Operations Research*.

Souyris, S., S. Hao, S. Bose, A.C. England III, A. Ivanov, U. K. Mukherjee, S. Seshadri, and Y. Xu (2021). Early Detection of Concurrent COVID-19 Waves. Submitted to *Scientific Reports*.

Hao, S., Y. Xu, U. K. Mukherjee, S. Souyris, S. Seshadri, A. Ivanov, M. E. Ahsen (2021). Hotspots for Emerging Epidemics: Multi-Task and Transfer Learning over Mobility Networks. Under second major revision in *POM*

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.

Souyris, S., and J. Miranda. Scheduling Television Shows with Machine Learning and Integer Programming.

Ivanov, A., Z. Tacheva, A. Alzaidan, and S. Souyris. Visual Nudges During Crises: Improving Public Health Outcomes Through Institutional Actors' Social Media Engagement Amid COVID-19.

Teaching Experience

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

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

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

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

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

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

Honors and Awards

Franz Edelman Laureate, INFORMS, for "Operations Research Transforms Scheduling of Chilean Soccer Leagues and South American World Cup Qualifiers," 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 for EURO Excellence in Practice Award 2009, "Scheduling the Chilean Soccer League by Integer Programming," with G. Duran, M. Guajardo, J. Miranda, D. Saure, A. Weintraub, R. Wolf.

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

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

Grants

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

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

PI, Carle Illinois College of Medicine, Health Make-a-Thon winner, Project Escape, 2020.

References

Sridhar Seshadri

Alan J. and Joyce D. Baltz Endowed Professor and Area Chair
Information Systems/Operations Management/Supply Chain/Analytics
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Electrical and Computer Engineering
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