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PROFESSIONAL EXPERIENCE

UNIVERSITY OF CHILE, Department of Industrial Engineering, Fall 2013 – Present.
Tenure Track Assistant Professor.

UNIVERSITY OF PITTSBURGH, Department of Industrial Engineering, Fall 2010-Summer 2013.
Tenure Track Assistant Professor.

IBM T J WATSON RESEARCH CENTER, Hawthorne, NY, Summer 2009.
Summer Intern: Dynamic pricing of high performance computing services in cloud environment.

UNIVERSITY OF CHILE, Industrial Engineering Department, Santiago, Chile, 2003-2005.
Instructor: responsibilities included teaching undergraduate courses and participating in consulting projects.

EDUCATION

COLUMBIA UNIVERSITY, Graduate School of Business, New York, NY.
Ph.D., Decisions, Risk, and Operations, 2011.
M.A., Decisions, Risk, and Operations, 2008.

UNIVERSITY OF CHILE, Santiago, Chile.
M.A., Operations Management, 2004.
Industrial Engineer Degree, 2003.
Bachelor Degree in Industrial Engineering, 2000.

RESEARCH INTERESTS

Stochastic modeling and its applications to service operations and revenue management. Data-driven approaches to decision-making under uncertainty, and their application in the retail industry, on line advertisement, and service systems in general.

PUBLISHED PAPERS

1. D. Sauré and A. Zeevi, “Optimal Dynamic Assortment Planning with Demand Learning,” (*MSOM 2009 Student Paper Competition First Prize*). **MSOM**, 15, 387-404, 2013.
2. V. Farias, D. Sauré and G. Weintraub, “The Linear Programming Approach to Solving Large Scale Dynamic Stochastic Games,” (*JFIG 2009 Paper Competition Second Prize*). **The RAND Journal of Economics**, 43, 253-282, 2012.

3. D. **Sauré**, A. Sheopuri, H. Qu, H. Jamjoom and A. Zeevi, “Time of Use Pricing Policies for Offering Cloud Computing as a Service.” **IEEE SOLI 2010**.
4. G. Duran, M Guajardo, J. Miranda, D **Sauré**, S. Souyris and A. Weintraub, “Scheduling the Chilean Soccer League by Integer Programming.” **Interfaces**, 37, 539—552, 2007.

SUBMITTED AND WORKING PAPERS

5. S. Modaresi, D. **Sauré** and J. P. Vielma, “Learning in Combinatorial Optimization: What and How to Explore,” (*JFIG 2013 Paper Competition Second Prize*). Submitted for publication.
6. O. Besbes and D. **Sauré**, “Dynamic Pricing Policies in Presence of Demand Shocks.” Submitted for publication.
7. A. Khademi, D. **Sauré**, R. Braithwaite, A. Schaefer and M. Roberts, “The Price of Non-abandonment: HIV in Resource-Limited Settings,” (*2012 Pierskalla Best Paper Award, Finalist*). Submitted for publication.
8. R. Braithwaite, A. Khademi, M. Roberts, D. **Sauré** and A. Schaefer, “HIV Coverage in Sub-Saharan Africa: Now Comes the Hard Part.” Submitted for publication.
9. Khademi, S. Braithwaite, D. **Sauré**, A. Schaefer, K. Nucifora and M. Roberts, “Should Expectations about the Rate of New Antiretroviral Drug Development Impact the Timing of HIV Treatment Initiation and Expectation about Treatment Benefits?” Submitted for publication.
10. O. Besbes and D. **Sauré**, “On Assortment Competition under Multinomial Logit Demand.” Working paper (draft available upon request).
11. D. **Sauré** and A. Zeevi, “Dynamic Learning and Customization in Display-based Online Advertisement.” Working paper (draft available upon request).
12. D. **Sauré**, A. Zeevi and P. Glynn, “A Linear Programming Algorithm for Computing the Stationary Distribution of Semi-martingale Reflected Brownian Motion.” Working paper (draft available upon request).
13. D. **Sauré**, R. Caldentey and R. Epstein, “Optimal Exploitation of a Nonrenewable Resource.” Working paper (draft available upon request).

WORK IN PROGRESS

14. R. Lederman and D. **Sauré**, “Hierarchical Customization of Product Assortments under Raking-based Customer Choice”. Draft in Preparation.
15. S. Modaresi and D. **Sauré**, “Dynamic Clustering and Assortment Personalization.” Draft in preparation.
16. B. Johannes, J. Orlin, D. **Sauré**, J.P. Vielma, “Generalized Inverse Optimization.” Draft in preparation.

17. M. Zare, O. Prokopyev and D. **Sauré**, “Hedging Against Heuristic Adversaries in Attacker-Defender Models.” Draft in preparation.
18. J. Borrero, O. Prokopyev and D. **Sauré**, “Sequential Network Interdiction with partial Information.” Draft in preparation.

TEACHING EXPERIENCE

Probability (Ph.D.), Department of Industrial Engineering, University of Pittsburgh (Fall 2012).

Advanced Stochastic Processes (Ph.D.) Department of Industrial Engineering, University of Pittsburgh (Spring 2013).

Probability and Statistics for Engineers (Graduate), Department of Industrial Engineering, University of Pittsburgh (Fall 2011).

Engineering management (Graduate), Department of Industrial Engineering, University of Pittsburgh (Spring 2011, Spring 2012, Spring 2013).

Optimization (Undergraduate), Department of Industrial Engineering, University of Chile (Fall 2003).

Stochastic Processes (Undergraduate), Department of Industrial Engineering, University of Chile (Spring and Fall 2004, Spring 2005).

FUNDED RESEARCH

D. **Sauré** (PI) and J. P. Vielma, “Repetitive Combinatorial Optimization with learning,” submitted to National Science Foundation (CMMI), October 2011. Amount **funded** \$260,000, September 2012- August 2015.

D. **Sauré** (PI), Adaptive Reliability and Lifetime Extension of Nuclear Facilities in Uncertain, Dynamic Environments,” NRC Young Faculty Development Grant, Senior advisor: Jeffrey Kharoufeh. Amount **funded**: \$100,000, September 2011-August 2012.

B. Bidanda, D. **Sauré** (Co-PI) and M. R. Shankar, “Improving Yield Uncertainty in Complex Processes,” submitted to II-VI Foundation. Amount **funded** \$100,000, July 2013- June 2014.

SUPERVISING AND COMMITTEE MEMBERSHIP

Co-advising (with O. Prokopyev): Juan Sebastian Borrero, second year Ph.D. student, University of Pittsburgh.

Co-advising (with A. Schaefer): Amin Khademi, **recipient 2012 Bonders Scholarship for Applied Operations in Health Services**, currently Assistant Professor at Clemson University.

Doctoral committee: Murat Kurt, student, University of Pittsburgh (currently at University at Buffalo).

PATENTS

M. Podlaseck, H. Jamjoom, H. Qu, D. **Sauré**, Y. Ruan, Z. Shae, A. Sheopuri, "Method and Apparatus for Offering High Performance Computing as a Service."

SERVICE AND ASSOCIATION

Society memberships: Institute for Operations Research and Management Sciences (INFORMS); INFORMS' Revenue Management and Pricing Section, INFORMS' MSOM society; Institute of Industrial Engineering (IIE); Production and Operations Management Society (POMS).

Referee for Manufacturing and Service Operation Management (MSOM), IIE Transactions, Naval Research Logistics, Management Science, Stochastic Systems, Operations Research, Annals of Operations Research, Production and Operations Management.

Reviewer for the 2012, 2013 and 2014 FONDECYT National Research Funding Competition of the Chilean National Commission for Scientific and Technological Research (CONICYT)

Session Chair for: INFORMS RM&P Conference 2011, New York, NY; INFORMS conference 2011, Charlotte, NC (RM&P section); POMS Conference 2012, Chicago, IL.

CONFERENCE PRESENTATIONS AND INVITED TALKS

Learning and Computation in Sequential Combinatorial Optimization

INFORMS conference, November 2011, Charlotte, NC.
Penn State University (November 2012), State College, PA.
Carnegie Mellon University (February 2013), Pittsburgh, PA.
INFORMS conference, October 2013, Minneapolis, MI.

Assortment and Pricing Competition under Multinomial Logit Demand.

INFORMS conference, November 2010, Austin, TX.
INFORMS conference, November 2011, Charlotte, NC.
MSOM conference June 2011, Ann Arbor, MI.
Economics/Operations Workshop (University of Chile), December 2011, Santiago Chile.

Dynamic Pricing in Presence of Demand Shocks

INFORMS RM&P conference, June 2011, New York, NY.
INFORMS conference, November 2011, Charlotte, NC.
Katz Graduate School of Business, Pittsburgh University, April 2013.

Optimal Learning in Display-based Online Advertisement.

INFORMS conference, October 2009, San Diego, CA.
London Business School, March 2012, London, UK.
Ross School of Business, Kellogg School of Management, Stanford GSB, Stern School of Business, Hass School of Business, IE department U. Pittsburgh, The Wharton School, Marshall School of Business and Booth School of Business (December 2009-February 2010).
Economics/Operations Workshop (University of Chile), December 2010, Santiago Chile.

Optimal Dynamic Assortment Planning.

INFORMS conference, October 2009, San Diego, CA.
INFORMS conference, October 2008, Washington D.C.
MSOM conference June 2009, Cambridge, MA.

A Linear Programming Algorithm for Computing the Stationary Distribution of Semimartingale Reflected Brownian Motion.

INFORMS conference, October 2007, Seattle, WA.

Services Cloud Pricing: Dynamic Pricing of Computing Resources for a Reservation System.

INFORMS conference, October 2009, San Diego, CA.

Competing for Scarce Capacity with Advance Purchasing Orders.

INFORMS conference, October 2007, Seattle, WA.

The Linear Programming Approach to Solving Large Scale Dynamic Stochastic Games.

INFORMS conference, October 2008, Washington DC.

HONORS

Second Prize JFIG 2013 Paper Competition (“Learning in Combinatorial Optimization: What and How to Explore”).

Finalist 2012 Pierskalla Best Paper Competition (“Epidemic Control under Resource Constraints: HIV in Sub-Saharan Africa”).

First Prize MSOM 2009 Student Paper Competition (“Optimal Dynamic Assortment Planning”).

Second Prize JFIG 2009 Paper Competition (“The Linear Programming Approach to Solving Large Scale Dynamic Stochastic Games”).

INFORMS Doctoral Colloquium, 2009.

Doctoral Fellowship, Graduate School of Business, Columbia University, 2005-2009.

Best Lecturer Award, Industrial Engineering Department, University of Chile, 2004.

Best Teaching Assistant Award, Industrial Engineering Department, University of Chile, 2002 and 2003.

Grant for graduate studies (M.A., U. of Chile) CONICYT (NSF equivalent) 2002 and 2003.

Dean’s List, School of Engineering (top 5%), University of Chile, 1996-2002.

Academic Excellence Fellowship for score in P.A.A. (top 2%, SAT equivalent), School of Engineering, University of Chile, 1996.

REFERENCES

Available upon request.