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NICOLAS MERENER

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EMPLOYMENT

March 2008 – Present. Assistant Professor, School of Business
Universidad Torcuato Di Tella, Buenos Aires, Argentina

August 2002 – March 2008. Senior Vice President, Fixed Income Derivatives Research
Lehman Brothers, New York, NY.
Quantitative modeling for the Interest Rate Derivative business. Expertise on rates, volatility, correlation, inflation and hybrids (cross asset class). Flow and exotic derivatives valuation, hedging and risk management. Development of quantitative relative value tools. Managing a team of four PhD associates.

June 2001 – August 2001. Summer intern, Fixed Income Derivatives Research
Lehman Brothers, New York, NY.

EDUCATION

Columbia University, New York, NY.
PhD in Applied Mathematics, October 2002.
Thesis: Jump-Diffusion Libor Market Models: Simulation, Derivatives Pricing, and Estimation.
Advisor: Professor Paul Glasserman, Columbia Business School.

University of Buenos Aires, Argentina.
Licenciatura (Physics), April 1997.
Advisor: Professor Gabriel Mindlin

RESEARCH INTERESTS

Quantitative Finance, Emerging Markets Finance, Numerical Methods

WORKING PAPERS

Distributed Production and the Rise of Emerging Markets in CME Soybean Futures Pricing

Efficient Monte Carlo for Discrete Variance Contracts
(with Leonardo Vicchi)

REFEREED PUBLICATIONS

Swap Rate Variance Swaps
Forthcoming in Quantitative Finance (2010)

Convergence of a Discretization Scheme for Jump-Diffusion Processes with State-Dependent Intensities, (with Paul Glasserman),
Proceedings of the Royal Society A, vol. 460, (2041), pp 111-127, January 2004.

Cap and Swaption Approximations in Libor Market Models with Jumps, (with Paul Glasserman),
The Journal of Computational Finance, vol. 7 (1), pp 1-36, Fall 2003.

Numerical Solution of Jump-Diffusion Libor Market Models, (with Paul Glasserman),
Finance and Stochastics, vol. 7 (1), pp 1-28, January 2003.

Low Dimensional Dynamics outside the Laboratory: the case of Stellar Pulsations, (with Gabriel Mindlin and Padi Boyd),
Europhysics Letters, vol. 42 (1), pp. 111-127, 1998.

BOOK CHAPTERS

Libor Volatility Derivatives, in *Modelling Interest Rates*, edited by Fabio Mercurio.
Risk Books, London (2009)

SEMINARS AND PRESENTATIONS

University of Toronto (2011), IMPA RIO (2010), SIAM FinMath SF (2010), ALIO INFORMS (2010), New York University (2009), Imperial College (2009), SIAM FinMath NJ (2008), Universidad Torcuato Di Tella (2006), 12th Derivatives Securities Conference at Cornell University (2002), Columbia University (2002)

CONSULTING EXPERIENCE

MBA Lazard. Asset Management, Buenos Aires. 2008.
Lehman Brothers. Quantitative Volatility Strategies, Buenos Aires – New York. 2008.

TEACHING EXPERIENCE

Futures, Options and Swaps (Master in Finance, UTDT)
Structured Products and Monte Carlo Methods (Master in Finance, UTDT)
Risk, Uncertainty and Finance (Licenciatura, UTDT)

Winner of Best Professor award in the Business Economics Major at UTDT, 2009.

Teaching Assistant:
Managerial Statistics (MBA core course, Columbia Business School)

Monte Carlo Methods in Finance (PhD course, Columbia Business School)
Linear Algebra, PDEs (M.S. course, Applied Mathematics, Columbia University)
Calculus, Linear Algebra (CBC, University of Buenos Aires)

OTHER ACTIVITIES

Ph.D. advisor for Leonardo Vicchi (Mathematics, UBA, expected graduation March 2012)
Quantitative Finance session organizer at ALIO INFORMS 2010
Visiting researcher, Oxford Man Institute, University of Oxford, February 2010
Coordinator for UTDT Business School Research Seminar, 2008 – Present.
Referee for Finance and Stochastics.