NICOLAS MERENER

School of Business, Universidad Torcuato Di Tella
Saenz Valiente 1010, Buenos Aires, Argentina (1426)
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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. (details below)

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: Prof. Gabriel Mindlin

RESEARCH INTERESTS

Quantitative Finance, Emerging Markets Finance, Numerical Methods

WORKING PAPERS

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

PUBLICATIONS

Swap Rate Variance Swaps
Forthcoming in Quantitative Finance

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

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.

INDUSTRY EXPERIENCE

Full time:
Fixed Income Derivatives Research, Lehman Brothers, New York. 2002-2008.
Quantitative modeling for the Interest Rate Derivative business. Expertise on Rates, Volatility, Correlation, Inflation and Hybrids (cross asset class). Vanilla and Exotic derivatives valuation, hedging and risk management. Development of quantitative relative value tools. Managing a team of four PhD associates.

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

SEMINARS AND PRESENTATIONS

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)

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)

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

Visiting researcher, Oxford Man Institute, University of Oxford, February 2010
Best Professor award in the Business Economics Major at UTDT, 2009.