

CURRICULUM VITA

Thaleia Zariphopoulou **V. F. Neuhaus Centennial Professor**

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EDUCATION

Ph.D. Applied Mathematics, Brown University, 1989
M.S. Applied Mathematics, Brown University, 1985
B.A. Electrical Engineering, National Technical University of Athens, Greece, 1984

AREA OF SPECIALIZATION

Financial Mathematics, Stochastic Control, Quantitative Finance

EMPLOYMENT

Academic Positions

- University of Texas at Austin, V. F. Neuhaus Centennial Professor, Department of Mathematics and Department of Risk, Information and Operations Management, Red McCombs School of Business, 1999-present
- University of Wisconsin-Madison, Laun Associate Professor of Business and Associate Professor of Mathematics, 1995-2000
- University of Wisconsin-Madison, Associate Professor of Business and Mathematics, 1994-1995
- University of Wisconsin-Madison, Assistant Professor of Business and Mathematics, 1991-1994
- Worcester Polytechnic Institute, Assistant Professor, 1989-1991
- Brown University, Teaching Fellow, 1987-1988
- Brown University, Research/Teaching Assistant, 1984-1987

Visiting Positions

- University of Paris IX-Dauphine, Visiting Professor, May 2002
- University of Paris IX-Dauphine, Visiting Professor, May 2001
- University of Paris IX-Dauphine, Visiting Professor, May 1999
- University of Paris IX-Dauphine, Visiting Professor, May 1996
- Isaac Newton Institute, Cambridge, England, Visiting Scholar, Spring 1995
- Brown University, Visiting Assistant Professor, 1988-1989

HONORS, AWARDS

V. F. Neuhaus Centennial Professorship, 1999-present
Romnes Fellowship, University of Wisconsin-Madison, 1997-2000
Chair, Laun Professorship of Finance, 1995-2000
Alfred P. Sloan Foundation Fellowship, 1995-1997

SELECTED PUBLICATIONS

1. Maturity-independent risk measures (with G. Zitkovic), (2007), preprint.
2. Options: New perspectives, Palgrave Dictionary of Economics, 2nd Edition, (2007), in print.
3. Investment and valuation under backward and forward dynamic exponential utilities in a stochastic factor model (with M. Musiela), *Dilip Madan's Festschrift*, (2007), 303-334.
4. Bounds and asymptotic approximations when volatility is random (with R. Sircar), *SIAM Journal on Control and Optimization*, 43 (2005), 1328-1353.
5. A valuation algorithm for indifference prices in incomplete markets (with M. Musiela), *Finance and Stochastics*, 8 (2004) 399-414.
6. An example of indifference prices under exponential preferences (with M. Musiela), *Finance and Stochastics*, 8 (2004) 229-239.
7. Pricing dynamic insurance risks: an expected utility approach (with V. Young), *Scandinavian Actuarial Journal* 4 (2002) 16-30.
8. Environmental models with irreversible decisions (with J. Scheinkman), *Journal of Economic Theory* 96 (2002) 180-207.
9. Bounds on derivative prices in an intertemporal setting with proportional costs and multiple securities (with G. Constantinides), *Mathematical Finance* 11 (2001) 331-346.
10. A solution approach to valuation with unhedgeable risks, *Finance and Stochastics* 5 (2001) 61-82.
11. Computation of distorted probabilities for diffusion processes via stochastic control methods (with V. Young), *Insurance: Mathematics and Economics* 27 (2000) 1-18.
12. On level curves of value functions in optimization models of expected utility (with C. Tiu), *Mathematical Finance* 10 (2000) 323-338.
13. Optimal investment and consumption models with nonlinear stock dynamics, *Mathematical Methods of Operations Research* 50 (1999) 271-296.
14. Bounds on prices of contingent claims in an intertemporal economy with proportional transaction costs and general preferences (with G. Constantinides), *Finance and Stochastics* 3 (1999) 345-369.
15. Turnpike behavior of long-term investments (with C.F. Huang), *Finance and Stochastics* 2 (1999) 1-20.
16. Optimal consumption and portfolio choice with borrowing constraints (with J. L. Vila), *Journal of Economic Theory* 7 (1998) 402-431.
17. Hedging in incomplete markets with HARA utility (with D. Duffie, W. H. Fleming and H. M. Soner), *Journal of Economic Dynamics and Control* 21 (1997) 753-782.
18. Portfolio selection with transaction costs (with A. Tourin), *Progress in Probability* 36 (1995) 385-391.
19. Consumption and investment models with constraints, *SIAM Journal on Control and Optimization* 32 (1994) 59-85.
20. European option pricing with transaction costs (with M. H. A. Davis and V. Panas), *SIAM Journal on Control and Optimization* 31 (1993) 470-493.

21. Optimal investment with undiversifiable income risk (with D. Duffie), *Mathematical Finance* 3 (1993) 135-148.
22. Investment-consumption models with transaction fees and Markov-chain parameters, *SIAM Journal on Control and Optimization* 30 (1992) 613-636.

SERVICE TO THE PROFESSION

Editorial Positions

- Associate Editor of *SIAM Journal on Control and Optimization*, 2004-present
- Associate Editor of *Finance and Stochastics*, 2003-present
- Associate Editor of *Decisions in Economics and Finance*, 2001-present
- Associate Editor of *Mathematical Finance*, 1999-present
- Associate Editor of *Annals of Applied Probability*, 1997-2002

President (2006-2008) and Vice-President (2004-2006) of the Bachelier Finance Society
Vice Chair of the SIAM Activity Group (SIAG) of Financial Mathematics and Engineering (2007-2008)

GRADUATE STUDENTS

R. Popoff, current
J. Windle, current
A. Lyukov, current
K. Mardanov, current
T. Zhou, current
K. Sokolova, 2007
N. Ringer, 2007
Q. Su, 2007
S. Stoikov, 2005
M. Mazaheri, 2002
C. Tiu, 2002
S. Mac Nair, 2000