Stathis Tompaidis
Curriculum Vitæ

McCombs School of Business
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Finance Department
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Education

B.Sc.	Aristotle's University (Thessaloniki, Greece)	1989
Ph.D.	University of Texas at Austin	1994

Professional Experience

06–present	Associate Professor, Department of Information, Risk and Operations Management, and Department of Finance, McCombs School of Business, University of Texas at Austin
99–06	Assistant Professor, Information, Risk and Operations Management, McCombs School of Business, University of Texas at Austin
03–04	Visiting Professor, Instituto Tecnológico Autónomo de México
97–99	Lecturer, Information, Risk and Operations Management, McCombs School of Business, University of Texas at Austin
96–97	Postdoctoral Fellow, Mathematics Department, University of Toronto Scientific Director of RiskLab-Toronto
95–96	Human Capital and Mobility Postdoctoral Fellow at Institut de Recherche Mathématique de Rennes
94–95	Postdoctoral Fellow, Mathematics Department, University of Toronto

Professional Activities

- Referee for Annals of Finance, Annals of Operations Research, Association for Computer Machinery: Transactions on Modeling and Computer Simulation (ACM TOMACS), Canadian Applied Mathematics Quarterly, Decision Analysis, Decision Support Systems, European Journal of Finance, European Journal of Operational Research, Europhysics Letters, Finance and Stochastics, IEEE Transactions on Power Systems, Journal of Applied Mathematics and Decision Science, Journal of Applied Mathematics and Optimization, Journal of Applied Mathematical Finance, Journal of Banking and Finance, Journal of Economic Dynamics and Control, Journal of Finance, Journal of Mathematical Finance, Journal of Risk, Management Science, Mathematics of Information Technology and Complex Systems (MITACS), Naval Research Logistics, Networks, Operations Research, Physica D, Quantitative Finance, Resource and Energy Economics, SIAM Journal of Mathematical Analysis, SIAM Journal on Control and Optimization.
- Session chair in session on "Options", Western Finance Association 2006 meeting.
- Member of Program Committee, Western Finance Association 2006 meeting.
- Co-organizer with Luis Seco, Workshop on "Mathematical Physicists in Finance and

Industry", Centre de Recherches Mathématiques, Montréal, June 12-17, 2000.
- Co-organizer with Stamatis Dostoglou, Meeting on "Mathematical and Computational Finance", Columbia, Missouri, May 19-21, 2000.
- Organizer, Special Session on "Mathematical and Computational Finance", American Mathematical Society Central Section Meeting, Austin, Texas, October 8-10, 1999.
- Organizer, Workshop on "Mathematical and Computational Finance", Austin, Texas, October 7-8, 1999.

Research Interests

Computational Finance, Energy Finance, Real Options, Real Estate Finance, Derivative Pricing and Hedging, Portfolio Management Enterprise-wide Risk Management, Asset Allocation under Constraints.

Research Awards

- Summer Research Award from the University of Texas Faculty Development program, Summer 2005
- Nominated for the 2004 Brattle Prize, for the best paper in Corporate Finance published in the Journal of Finance in 2004 for the article "Market Imperfections, Investment Flexibility, and Default Spreads", jointly with Sheridan Titman and Sergey Tsyplakov, December 2004
- The College for Business Administration Foundation Research Excellence Award for Assistant Professors, McCombs School of Business, University of Texas at Austin, April 2004
- Best Presentation in Energy Sponsored Sessions Award, INFORMS conference, Atlanta, Georgia, joint with Ross Baldick and Sergey Kolos, October 2003

Research Funding

- Determinants of Credit Spreads in Commercial Mortgages, Real Estate Research Institute, with Sheridan Titman and Sergey Tsyplakov $12,000 (2002)
- Pricing Commercial Mortgages, Real Estate Research Institute, with Sheridan Titman and Sergey Tsyplakov $15,000 (2001)
- Analysis and Simulation of Strategic Behavior and Price Processes in Transmission Constrained Electricity Markets, National Science Foundation, with Ross Baldick $100,000 (2000)
- Efficient Numerical Methods for Derivative Pricing, SciComp Inc, with Patrick Jaillet, $11,890 (1999)
- Risk Management in the Gas and Power Markets, Lower Colorado River Authority, with Patrick Jaillet $10,000 (1997)
- Estimation of Credit Risk for Interest-Rate Derivatives, Bank of Nova Scotia, with Luis Seco $50,000 (1997)
- Risk Management of Bermudan Swaption Portfolios, Bank of Nova Scotia, with Luis Seco $25,000 (1997)

Teaching

Ph.D. courses at UT-Austin
• Mathematics in Finance — Spring 2006
• Computational Finance — Fall 2005, 2006

MBA courses at UT-Austin
• Statistics — Fall 1998, 1999, 2000, 2001, 2002, 2004, 2005, 2006 (1^{st} year MBA core course)
• Case Studies in Financial Engineering — Spring 1999, 2000, 2001 (2^{nd} year MBA elective)
• Computational Finance — Spring 1998, 1999 (2^{nd} year MBA elective)
• Futures and Options — Spring 1998 (2^{nd} year MBA elective)
• Mathematics in Finance — Fall 1997 (2^{nd} year MBA elective)
• Financial Modeling and Optimization — Fall 1997 (2^{nd} year MBA elective)

Executive education courses at UT-Austin
• Statistics — Summer 2006, Fall 2006 (1^{st} year MBA core course)

Undergraduate courses at UT-Austin
• Real Options — Summer 2003 (Research Experiences for Undergraduates program)
• Computational Finance — Summer 2003 (Research Experiences for Undergraduates program)

Master of Finance courses at ITAM
• Inversiones III — Spring 2004 (core class)
• Computational Finance — Summer 2003 (elective)
• Financial Engineering — Summer 2003 (elective)

Master Thesis Supervisor
Jorge Ramírez López, "Estimation of Financial Option Sensitivities, using the Monte Carlo Method", Master of Finance, ITAM, Spring 2004

PhD Dissertation Committees
Oliver Diaz Espinosa, Mathematics, 2006; Yongjun Tang, Finance, UT Austin, 2005; Johnny Jiang, Electrical and Computer Engineering, UT Austin, 2005; Sergey Kolos, CAM, UT Austin, 2005; Sasha Stoikov, Mathematics, UT Austin, 2005; Joseph Hahn, MSIS, UT Austin, 2005; James Doran, Finance, UT Austin, 2004; Abhijit Chatterjee, MSIS, UT Austin, 2003; You Seok Son, Electrical and Computer Engineering, UT Austin, 2003; Sergey Tsyplakov, Finance, UT Austin, 2002; Cristian Tiu, Mathematics, UT Austin, 2002; Byeongwook Choi, MSIS, UT Austin, 2002; Cantekin Dincerler, Finance, UT Austin, 2001; Xiaorui Hu, Economics, UT Austin, 2000;

Currently I serve on the PhD committees of 6 UT Austin students (Alexander Lyukov, CAM; Konstantin Mardanov, CAM; Ekaterina Sokolova, CAM; Qimou Su, CAM; Libo

Sun, Finance; Ti Zhou, Mathematics)

Teaching Awards

- Selected to the Fall 2005 Honor Roll by the full-time MBA students (achieved at least 4.5/5 in an MBA student administered end of semester survey)

Invited Presentations

1999

University of Wisconsin-Madison, 9th Annual Derivative Securities conference (Boston, MA), Instituto Tecnologico Autonomo de Mexico (Mexico City, Mexico), Western Finance Association Meeting (Santa Monica, CA), Conference on Computational Intelligence for Financial Engineering (New York, NY)

2000

American Real Estate and Urban Economics Annual Meeting (Boston, MA), University of Missouri-Columbia, 10th Annual Derivatives Securities Conference (Boston, MA), Centre de Recherche Mathematique (Montreal, Canada), European Financial Management Association Annual Meeting (Athens, Greece)

2001

University of Arizona, McMaster University (Hamilton, Canada), University of Pittsburgh, 11th Annual Derivatives Conference (New York, NY), Fields Institute (Toronto, Canada), Instituto Tecnológico Autónomo de México (Mexico City, Mexico), Carnegie Mellon University, Western Finance Association Meeting (Tucson, AZ), Real Estate Research Conference (Vail, CO), Optimization 2001 (Aveiro, Portugal), 2001 Annual INFORMS meeting (Miami, FL)

2002

American Mathematical Society Meeting (Ann Arbor, MI), Instituto Tecnológico Autónomo de México (Mexico City, Mexico), Real Estate Research Institute Annual Conference (Chicago, IL), Second World Congress of the Bachelier Society (Crete, Greece), 6th Annual Conference on Real Options (Paphos, Cyprus), King's College (London, United Kingdom), European Finance Association meeting (Berlin, Germany), University of Michigan, American Mathematical Society Meeting (Orlando, FL)

2003

International Conference on Modeling, Optimization, and Risk Management in Finance (Gainesville, FL), Real Estate Research Institute Annual Conference (Chicago, IL), Princeton University, 13th Annual Derivative Securities Conference (New York, NY), 7th Annual Conference on Real Options (Washington D.C.), 2003 Annual INFORMS meeting (Atlanta, GA), Instituto Tecnológico Autónomo de México (Mexico City, Mexico), Universidad Autónoma Metropolitana (Mexico City, Mexico), University of South Carolina

2004

University of Pittsburgh, University of Florida, Instituto Tecnológico Autónomo de México (Mexico City, Mexico), Instituto Tecnológico y de Estudios Superiores de Monterrey (Mexico City, Mexico), Banff International Research Station Worskhop on Semimartingale Theory and Practice in Finance (Banff, Canada), Third World Congress of the Bachelier Society (Chicago, IL), 2004 Annual INFORMS meeting (Denver, CO)

2005

Workshop on "Energy Derivatives: Modeling, Pricing and Hedging" (Paris, France), King's College (London, United Kingdom), Workshop on Computational Finance (Newton Institute, Cambridge University, United Kingdom), University of Pireus (Athens, Greece), Greek Energy Regulatory Commission (Athens, Greece), Workshop on Financial Mathematics, Statistics and Econometrics (Statistical and Applied Mathematical Sciences Institute, Research Triangle Park, NC), Duke University (Durham, NC), University of Colima (Colima, Mexico)

2006

Workshop on "Commodity Derivatives" Imperial College (London, United Kingdom), 2006 North American Summer Meetings of the Econometric Society (Minneapolis, MN)

August 2006

Publications (refereed)

1. "*Interruptible Electricity Contracts from an Electricity Retailer's Point of View: Valuation and Optimal Interruption*", with Ross Baldick and Sergey Kolos, *Operations Research*, vol. **54** (4), 627–642, (2006).
2. "*Small Transaction Cost Asymptotics and Dynamic Hedging*", with Claudio Albanese, forthcoming, *European Journal of Operational Research*.
3. "*Tax Management Strategies with Multiple Risky Assets*", with Michael Gallmeyer and Ron Kaniel, *Journal of Financial Economics*, vol. **80**, (2), 243–291, (2006)
4. "*Determinants of Credit Spreads in Commercial Mortgages*", with Sheridan Titman and Sergey Tsyplakov, *Real Estate Economics*, vol. **33**, (4), (2005)
5. "*Valuation of Commodity Based Swing Options*", with Patrick Jaillet and Ehud I. Ronn, *Management Science*, vol. **50**, (7), 909–921, (2004)
6. "*Market Imperfections, Investment Flexibility and Default Spreads*", with Sheridan Titman and Sergey Tsyplakov, *Journal of Finance*, vol. **59**, (1), 165–205, (2004)
7. "*Energy Futures Prices: Term Structure Models with Kalman Filter Estimation*", with Mihaela Manoliu, *Applied Mathematical Finance*, vol. **9** (1), 21–43, (2002)
8. "*Real Options in Leasing: the Effect of Idle Time*", with Christopher Kenyon, *Operations Research*, vol. **49** (5), 675–689, (2001)

Papers Submitted

9. "*Efficient Computation of Hedging Parameters for Discretely Exercisable Options*", with Ron Kaniel and Alexander Zemlianov.
10. "*The Impact of Large Changes in Asset Prices on Intra-Market Correlations in the Domestic and International Markets*", with Ehud I. Ronn and Akin Sayrak.

Working Papers

11. "*A Numerical Method for Pricing Electricity Derivatives Based on Continuous Time Lattices*", with Claudio Albanese and Harry Lo.
12. "*Asset Selection and Under-Diversification with Financial Constraints and Income: Implications for Household Portfolio Studies*", with Hervé Roche.
13. "*Portfolio Choice with Taxes: The Role of Limited Losses*", with Michael Gallmeyer and Sanjay Srivastava.
14. "*A New Algorithm for Hedging Large Portfolios of Derivative Instruments*".

Other Publications

15. "*Book review: Computational Methods for Option Pricing*", *Quantitative Finance*, vol. **6** (4), 279–280, (2006)
16. "*Real Options in Leasing Semi-Submersible Rigs in the North Sea*", with Christopher Kenyon, *Computational Intelligence in Financial Engineering conference proceedings*, pages 218–239, (1999)
17. "*Swing Options: A ruthless business*", with Patrick Jaillet and Ehud Ronn, *Energy & Power Risk Management*, pages 28-29, (July 1998)
18. "*Swing Options: The quest for valuation*", with Patrick Jaillet and Ehud Ronn, *Energy & Power Risk Management*, pages 14-16, (June 1998)

August 2006

Publications in Dynamical Systems

19. "*Approximation of Invariant Surfaces by Periodic Orbits in High-dimensional Maps*", in Hamiltonian Systems with Three or More Degrees of Freedom (S'Agaró 1995), ed. Carles Simó ed., NATO Adv. Sci. Inst. Ser. C Math. Phys. Sci., 533, Kluwer Acad. Publ., Dordrecht, (1999)
20. "*Approximation of Invariant Surfaces by Periodic Orbits in High-dimensional Maps. Some Rigorous Results*", Experimental Mathematics, vol. **5**, pgs. 197–209 (1996)
21. "*Numerical Study of Invariant Sets of a Quasi-periodic Perturbation of a Symplectic Map*", Experimental Mathematics, vol. **5**, pgs. 211–230 (1996)
22. "*On the Singularity Structure of Invariant Curves of Symplectic Mappings*", with Rafael de la Llave, Chaos, vol. **5**, pgs. 227–237 (1995)
23. "*Comments on a paper by S. Kasperczuk (Integrability of the Yang-Mills Hamiltonian System: Celestial Mechanics and Dynamical Astronomy,* **58***, 387-391)*, with Antonio Elipe and Jarmo Hietarinta, Celestial Mechanics and Dynamical Astronomy, vol. **62**, pgs. 191–192 (1995)
24. "*Nature of Singularities for Analyticity Domains of Invariant Curves*", with Raphael de la Llave, Physical Review Letters vol. **73**, pgs. 1459–1463 (1994)
25. "*Computation of Domains of Analyticity for Some Perturbative Expansions from Mechanics*", with Rafael de la Llave, Physica D, vol. **71**, pgs. 55–81 (1994)
26. "*Strong and Weak Instabilities in 4D Mapping Models of Accelerator Dynamics*", with Tassos Bountis, in Nonlinear Problems in Future Particle Accelerators, ed. by G. Turchetti and W. Scandale, World Scientific (1991)

August 2006