

# Kasper Larsen - CV

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## Employment and Education

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- Assistant Professor in Mathematical Sciences, Carnegie Mellon University, 2007 to present.
- Visiting Assistant Professor in Mathematical Sciences, Carnegie Mellon University, 2004 - 2007. Supervisor: Steven E. Shreve, Department of Mathematical Sciences, Carnegie Mellon University.
- Ph.D. in Mathematical Finance, University of Southern Denmark, 2001 - 2004. Advisors: Claus Munk, Department of Finance, Niels Jørgen Nielsen, Department of Mathematical Sciences, and Peter Ove Christensen, Department of Management, University of Aarhus.
- Master in Mathematical Economics, University of Southern Denmark, 1999 - 2001. Advisors: Kristian Miltersen, Norwegian School of Economics and Business Administration, and Niels Jørgen Nielsen, Department of Mathematical Sciences, University of Southern Denmark.
- Bachelor in Mathematical Economics, Odense University, 1996 - 1999. Advisor: Claus Munk, Department of Finance, University of Southern Denmark.

## Teaching Experiences

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- Master level: Advanced Derivative Modeling (Carnegie Mellon University), Math preparation (Carnegie Mellon University), Stochastic Calculus II (Carnegie Mellon University), Credit Derivatives I & II (Carnegie Mellon University), Corporate Finance (Carnegie Mellon University), Advanced Topics in Finance (University of Southern Denmark).
- Undergraduate level: Projects in Applied Math (Carnegie Mellon University), Continuous Time Finance (Carnegie Mellon University) Models and Methods for Optimization (Carnegie Mellon University), Convex Analysis (University of Southern Denmark).

## Published Papers

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- “Satisfying convex risk limits by trading” joint work with T. Pirvu, S. E. Shreve and R. Tütüncü. *Finance & Stochastics* **9**(2), 177-195 (2005).
- “Optimal portfolio delegation when parties have different coefficients of risk aversion”. *Quantitative Finance* **5**(5), 503-512 (2005).
- “No arbitrage and the growth optimal portfolio”, joint work with M. M. Christensen. *Stochastic Analysis and Applications* **25**(1), 255-280 (2007).
- “Stability of utility maximization in incomplete markets”, joint work with G. Žitković. *Stochastic Processes and their Applications* **117**(11), 1642-1662 (2007).
- “The semi-martingale property via bounded logarithmic utility”, joint work with G. Žitković. *Annals of Finance* **4**(2), 255-268 (2007).
- “Continuity of utility-maximization with respect to preferences”. Forthcoming in *Mathematical Finance* (2008).
- “A note on the existence of the power investor’s optimizer”. Forthcoming in *Finance & Stochastics* (2009).

## Submitted Papers and Work in Progress

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- “Numerical approximation of the optimal investment problem for power preferences”. Submitted.
- “Bond and Stock Market Equilibrium with Heterogeneous Agents Receiving Unspanned Income”, joint work with P. O. Christensen and C. Munk. In preparation.
- “Approximation of Infinite Dimensional Asset Markets”, joint work with F. E. Benth and S. L. Hansen.

# Seminar and Conference Presentations

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- 2008: Mathematisches Forschungsinstitut, Oberwolfach: Stochastic Analysis in Finance and Insurance, Carnegie Mellon University: Math-Finance series, Bachelier Finance Society: Fifth World Congress in London. Cornell, Ithaca: Financial Engineering Seminar.
- 2007: Carnegie Mellon University: Math-Finance series, Department of Mathematics, University of Michigan: Financial/Actuarial Mathematics Seminar, Technische Universität, Vienna: Workshop and Mid-Term Conference on Advanced Mathematical Methods for Finance.
- 2006: University of Texas at Austin: Math-Finance series, The Third CCCP-conference, Carnegie Mellon University: Math-Finance series, QMF - Sydney.
- 2005: Carnegie Mellon University: Workshop on Mathematical Finance, Norwegian School of Economics and Business Administration: Skinance Workshop, Carnegie Mellon University: Undergrad Math Colloquium. University of Southern Denmark: Finance Seminar, Carnegie Mellon University: Math-Finance series, Statistical and Applied Mathematical Sciences Institute: Math-Finance series.
- 2004: Bachelier Finance Society: Third World Congress in Chicago, Carnegie Mellon University: Math-Finance Seminar, University of Southern Denmark: Finance Seminar and Ph.D. Defense.
- 2003: Carnegie Mellon University: Math-Finance Seminar, University of Southern Denmark: Finance Seminar.

# Other Activities

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- Referee for *Mathematical Finance*, *Finance and Stochastics*, *Operation Research*, *Journal of Economic Dynamics and Control*, *International Journal of Theoretical and Applied Finance* and *Journal of Applied Mathematical Finance*.

# Awards

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- Fulbright scholar (2002).
- Tuborg scholar (2002).