

Prof. Dr. Frank Riedel
PROFESSOR FOR MATHEMATICS AND ECONOMICS
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Academic Appointments

since 2009	Director, <i>Institute of Mathematical Economics,</i> <i>Bielefeld University</i>
since 2007	Full Professor <i>Bielefeld University</i>
2003 – 2007	Associate Professor <i>Bonn University</i>
2002/03	Feodor Lynen–Grant from Alexander von Humboldt–Foundation <i>Stanford University</i>
2002	Research Grant from German Research Foundation (DFG) <i>University of California, Berkeley</i>
2000 – 2002	Assistant Professor (C1) <i>Humboldt–Universität zu Berlin</i>
1997 – 2000	Research Fellow <i>Humboldt–Universität zu Berlin</i>

Visiting Positions

2011/12	Visiting Fellow, ORFE Dept. <i>Princeton University</i>
2007	Visiting Professor <i>Universität Paris I, Pantheon–Sorbonne</i>
2005, 2009	Visiting Professor <i>University Paris IX, Dauphine</i>

Education

1998 – 2002	Habilitation in Economics, Humboldt–University at Berlin
1995 – 1998	Ph.D. in Economics, Humboldt–University at Berlin
1989 – 1995	Diploma in Mathematics, Freiburg University

Honors and Grants

2003	Heisenberg-Grant by the German Research Foundation (DFG)
2002/03	Feodor-Lynen-Grant by the Alexander von Humboldt-Foundation
2002	Research Grant by the German Research Foundation (DFG)
1999	Humboldt Prize for Outstanding Dissertations
1995 – 98	Ph.D.-Program, Humboldt-University at Berlin

Offers

2007, University Vienna, (Successor of Egbert Dierker)
2010, Universität Bonn, Hausdorff Chair for Excellence, Mathematical Economics

Editorial Work

2009–	Editorial Board Economic Theory
2010–	Editorial Board Journal of Mathematical Economics
2010–	Editorial Board Mathematics and Financial Economics
2011–	Editorial Board Finance and Stochastics
2012–	Editorial Board Decisions in Economics and Finance
2012–	Editorial Board Journal of Dynamics and Games (to be founded)

Consulting

1999, 2000	Bidding Strategies for Mannesmann Mobilfunk (now Vodafone) in Spectrum Auctions (1999 GSM Auktion, 2000 UMTS Auktion)
2008	Background Consulting on Bidding Strategies for an Electricity Auction for a Consulting Firm
2011	Report for the Prosecutor of the City of Bielefeld concerning Credit Derivative Trading by a County

16 Supervised Dissertations since 2004

Research Grants, Third-Party Funding

1. Feodor-Lynen Grant, Alexander von Humboldt-Stiftung, Stanford, 2003
2. Heisenberg-Grant, Humboldt University Berlin 2003
3. DFG-Projekt Ri 1128-3-1, Robust Irreversible Investment, 2006-09
4. Projekt A6, SFB 673, Alignment in Communication, 2007-2010

5. Exzellenzcluster Mathematics: Foundations, Models, Applications, Director of Research Area H, Stochastic market models and aggregation, 2006–07
6. Teilprojektleiter International Graduate School *Economic Behavior and Interaction Models*, EBIM, Bielefeld – Paris, 2009–
7. Teilprojektleiter International Graduate School *Stochastics and Real World Models*, Bielefeld –Beijing,2009–
8. DFG–Projekt Ri 1128–4–1, Singular Control Games: Strategic Issues in Real Options and Dynamic Oligopoly under Knightian Uncertainty, 2011–
9. Joint DFG–ANR (Agence Nationale de la Recherche, France) Project Ri–1128–6–1, Ambiguity in Games: The Role of Uncertainty in Strategic Interactions

Five Selected Publications

1. Optimal Stopping with Multiple Priors,
Econometrica, 77, 2009, 857–908
2. Other-regarding Preferences in General Equilibrium (with Martin Dufwenberg, Paul Heidhues, Georg Kirchsteiger and Joel Sobel)
Review of Economic Studies, 78, 2011, 613-639
3. Dynamic Coherent Risk Measures,
Stochastic Processes and Their Applications, 112, 2004, 185–200
4. Voronoi Languages (with Gerhard Jäger, Lars Metzger)
Games and Economic Behavior, 73, 2011, 517-537
5. On the Dynamic Foundation of Evolutionary Stability in Continuous Models (with Jörg Oechssler),
Journal of Economic Theory, 107, 2002, 223–252

Publications

1. The Best Choice Problem under Ambiguity (with Tatjana Chudjakow), *Economic Theory*, to appear
2. Optimal Stopping under Ambiguity in Continuous Time, (with Xue Cheng), *Mathematics and Financial Economics*, to appear
3. Evolutionary Stability in First Price Auctions (with Fernando Louge), *Dynamic Games and Applications*, 1, 2012, 110–128 (with Fernando Louge)
4. On Irreversible Investment (with X. Su), *Finance and Stochastics*, 15, 2011, 607–633,
5. Voronoi Languages (with Gerhard Jäger, Lars Metzger) *Games and Economic Behavior*, 73, 2011, 517–537
6. Other-regarding Preferences in General Equilibrium (with Martin Dufwenberg, Paul Heidhues, Georg Kirchsteiger and Joel Sobel) *Review of Economic Studies*, 78, 2011, 613–639
7. On Equilibrium Prices in Continuous Time (with Filipe Martins–da–Rocha), *Journal of Economic Theory*, 145, 2010, 1086–1112
8. Optimal Stopping with Multiple Priors, *Econometrica*, 77, 2009, 857–908
9. Brown–von Neumann–Nash Dynamics: the Continuous Strategy Case (with J.Hofbauer and J.Oechssler), *Games and Economic Behavior*, 65, 2009, 406–429
10. Optimal Consumption Choice with Intolerance for Declining Standard of Living, *Journal of Mathematical Economics*, 45, 2009, 449–464
11. Immediate Demand Reduction in Simultaneous Ascending Bid Auctions: A Uniqueness Result, (with Elmar Wolfstetter) *Economic Theory*, 29, 2006, 721–726
12. Stochastic Equilibria For Economies Under Uncertainty With Intertemporal Substitution (with Felipe Martins–da–Rocha) *Annals of Finance*, 2, 2006, 101–122
13. Stability of the Replicator Equation for a Single–Species with a Multi–Dimensional Continuous Trait Space (with Ross Cressman, Josef Hofbauer), *Journal of Theoretical Biology*, 239, 2006, 273–288

14. Generic Determinacy of Equilibria with Local Substitution,
Journal of Mathematical Economics, 41, 2005, 603–616
15. Dynamic Coherent Risk Measures,
Stochastic Processes and Their Applications, 112, 2004, 185–200
16. Heterogeneous Time Preferences and Humps in the Yield Curve: The Preferred Habitat Theory Revisited,
European Journal of Finance, 10, 2004, 3–23
17. Implementing Efficient Market Structure (with Veronika Grimm, Elmar Wolfstetter),
Review of Economic Design, 7, 2003, 443–463
18. Low Price Equilibrium in Multi-Unit Auctions: The GSM Spectrum Auction in Germany (with Veronika Grimm, Elmar Wolfstetter),
International Journal of Industrial Organization, 21, 2003, 1557–1569
19. Arrow–Debreu Equilibria With Asymptotically Heterogeneous Expectations Exist,
Economic Theory, 21, 2003, pp.929-934
20. On the Dynamic Foundation of Evolutionary Stability in Continuous Models (with Jörg Oechssler),
Journal of Economic Theory, 107, 2002, 223–252
21. The Third Generation (UMTS) Spectrum Auction in Germany (with Veronika Grimm, Elmar Wolfstetter),
ifo studien, 48, 2002, 123–143
22. Optimal Consumption Choice under Uncertainty with Intertemporal Substitution (with Peter Bank),
Annals of Applied Probability, 11, 2001, pp. 750-788
23. Existence of Arrow–Radner Equilibrium with Endogenously Complete Markets under Incomplete Information,
Journal of Economic Theory, 97, 2001, pp. 109–122
24. Existence and Structure of Stochastic Equilibria with Intertemporal Substitution (with Peter Bank),
Finance and Stochastics, 5, 2001, pp. 487-509
25. Evolutionary Dynamics on Infinite Strategy Spaces (with Jörg Oechssler),
Economic Theory 17, 2001, pp. 141-162
26. Non-Time Additive Utility Optimization - the Case of Certainty (with Peter Bank),
Journal of Mathematical Economics, 33, 2000, pp.271–290

27. Decreasing Yield Curves in a Model with an Unknown Constant Growth Rate,
European Finance Review, 4, 2000, pp.51-67.

Permanent Working Papers

1. Optimal Dynamic Choice of Durable and Perishable Goods (mit P.Bank)
Stanford University, 2003, Working Paper 03-009
2. A class of Heath-Jarrow-Morton models in which the unbiased expectations hypothesis holds,
Humboldt-Universität zu Berlin, Discussion Paper 19, 1997, SFB 373