

Alper Odabasioglu

CONTACT INFORMATION

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RESEARCH INTERESTS

Primary: Systemic Risk, Market Microstructure, Banking, *with emphasis on* CCPs, Over-the-counter derivatives and markets, Stress Testing, Capital Adequacy, Collateral, Leverage, Liquidity, Networks, Contagion, Information and Learning, Procyclicality, Amplification Mechanisms, Asset Bubbles, Endogenous Risk, Market & Credit Risks, Model Risk, *as well as* Principal-Agent Problems & Strategic Interactions, Hedge Funds, Corrective Tax, Distributed Ledgers, Financial Fragility/Crises, *with the aim to contribute to* Macro-prudential Policy, Financial Stability & Regulation, Quantitative Risk Management. **Secondary:** Money Markets, Monetary Policy.

ACADEMIC EXPERIENCE

London School of Economics and Political Science, UK

Research Fellow (due to promotion) – [Systemic Risk Centre](#) **November 2016 – present**

Research Officer – [Systemic Risk Centre](#) **August 2015 – October 2016**

European Central Bank, Frankfurt, Germany **July 2016 – December 2016**

External Consultant – [European Systemic Risk Board Secretariat](#)

University of Geneva – GFRI, Switzerland

Hedge Funds graduate course (R. Gibson Brandon) **February 2014 – July 2015**

Teaching Assistant – Duties included teaching sessions, designing one of the sessions based on my research, consulting the students for the term projects using hedge funds related data and grading them, final examination design based on research papers and its grading, weekly office hours.

Real Options graduate course (R. Gibson Brandon) **September 2010 – February 2013**

Teaching Assistant – Tasks included designing and grading two extensive problem sets and grading them, teaching sessions including one on option pricing and two sessions on solving the problem sets, final examination design based on research papers and its grading, weekly office hours.

University of Zürich – Swiss Banking Institute **September 2007 – August 2010**

COMISEF Early Stage Research Fellow (M. Paolella and R. Gibson Brandon)

Activities included provision of practical guidance into implementing solutions for highly complex optimization problems (in particular using heuristic methods such as genetic algorithms, and agent-based models), participation to the internal and external knowledge transfer activities by the network (e.g. preparing a talk on “Option Pricing using Fourier Transform Methods” for presenting at the Birkbeck College (UK), supporting the organization of the “Conference on Latest Developments in Heavy-Tailed Distributions” at the Free University of Brussels (Belgium), and contributing to the Comisef-Wiki content, a free-access knowledge base generated by the network members).

J. W. Goethe University, Frankfurt, Germany **October 2006 – March 2007**

Advanced Macroeconomics grad. course (D. Krüger and K. Adam)

Teaching Assistant Fellow (Stipendium) – Duties included weekly office hours and recitation sessions on topics including utilities, Arrow-Debreu competitive equilibrium, Pareto optimality, first welfare theorem, Negishi method, Benveniste-Scheinkman envelope theorem, recursive dynamic programming, value function iteration, solving fixed-points & policy functions in Matlab, OLG models.

EDUCATION

Massachusetts Institute of Technology, Cambridge, USA **Spring-Summer Sem. 2015**

Ph.D. Visiting, Finance

- Host supervisor: Prof. Andrew W. Lo

Swiss Finance Institute – University of Geneva **September 2010 – March 2015**

Ph.D., Finance (Geneva School of Economics and Management)

- Dissertation title: “Three Essays in Financial Economics: Feedback Mechanisms in Financial Markets and Agency Problems”
- Thesis committee: Prof. Rajna Gibson Brandon (supervisor), Prof. Thierry Foucault, Prof. Jean-Charles Rochet, Prof. Olivier Scaillet

HEC Paris, France

March 2014

Ph.D. Visiting, Finance

- Host supervisor: Prof. Thierry Foucault

University of Zürich, Switzerland

September 2007 – August 2010

COMISEF Early Stage Research Fellow trainings in EU & Ph.D. level course-work in Finance

- “Computational Optimization Methods in Statistics, Econometrics and Finance (COMISEF)” is a Marie Curie Research Training Network within European Union’s Sixth Framework Programme.

J. W. Goethe University, Frankfurt, Germany

October 2005 – November 2007

M.Sc., Quantitative Economics

- Thesis title: “Persistence in Stock Market Data: Revisiting the Rescaled Range(R/S) Analysis”

Boğazici University, Istanbul, Turkey

September 2001 – July 2004

Masters in Business Administration

Middle East Technical University, Ankara, Turkey

October 1996 – June 2000

B.Sc., Electrics and Electronics Engineering

Minor Program Certificate, Operations Research (Industrial Engineering)

WORK IN
PROGRESS

Karimalis, E., Odabasioglu, A., “Modelling spill-over effects among CCP clearing members.”

Anderson, R., Hoffmann, P., Langfield, S., Odabasioglu, A., “Systemic Risk and Risk Management in the Interest Rates Derivatives Markets: Network Analyses of the Exposures and Trades for Major Banking Groups using EMIR/DTCC Dataset.”

Danielsson, J., Odabasioglu, A., Saltoglu, B., “Anatomy of a Market Crash revisited: A Market Microstructure Analysis of the Turkish Overnight Liquidity Crisis.”

WORKING PAPERS

Odabasioglu, A. (2017), “Informed Trading Uncertainty, Amplification Mechanisms and Persistent Price Deviations.”

Gibson, R., Odabasioglu, A. and Padovani, M. (2017), “The Determinants of Banks’ Lobbying Activities before and during the 2007-2009 financial crisis.”

Odabasioglu, A., Uthemann, A. (2016), “Taxing Financial Transactions as a Policy Instrument: Implications for Market Quality.”

Odabasioglu, A. (2016), “Managerial Strategic Investment with Agency and Competition in a Real Options Framework.”

CONFERENCES AND SEMINARS

- 2017:**
- FED – Federal Reserve Board Seminar (Washington D.C.)

2016:

- Bank of England and LSE – “Workshop on Modelling Risk Amplification Mechanisms for Macroprudential Policymaking” (London)
- **(Co-organizer / Co-chair)** LSE – “Systemic Risk in Derivatives Markets” (London)
- NFA – Northern Finance Association Annual Meeting (Mont-Tremblant, Quebec)

2015:

- Annual International Conference on Real Options (Athens)
- CSRA – Research Consortium for Systemic Risk Meeting (Cambridge)
- M.I.T. Brownbag Seminar in Finance (Cambridge)
- AEA – American Economic Association Annual Meeting (Boston)

2014:

- Eurofidai/AFFI – Annual December International Finance Meeting (Paris)
- Swiss Finance Institute Doctoral Workshop (Lausanne)
- FMA – Financial Management Association Annual Meeting (Nashville)
- WEAI – Annual Conference of Western Economic Association International (Denver)

2013:

- Swiss Finance Institute Doctoral Workshop in Financial Intermediation and Stability (Geneva)
- Aidea-Finest Bicentenary Banking & Finance Conference (Lecce)
- Annual Conference on Global Financial Stability - Systemic Risk: Liquidity Risk, Governance and Financial Stability (Sydney)
- MMND – International Workshop on Market Microstructure and Nonlinear Dynamics (Paris)
- Gerzensee Annual Swiss Doctoral Workshop in Finance (Gerzensee)

HONORS AND DISTINCTIONS

Swiss National Science Foundation Early Postdoc Fellowship (~ CHF 100'000), 2015 – 2017

Travel grants by Swiss Academy of Humanities and Social Sciences (SAHS), 2013, 2014

Early Stage Research Fellowship within COMISEF (EU Marie Curie RTN), 2007 – 2010

Teaching Fellowship for assisting Prof. Dirk Krüger and Prof. Klaus Adam, 2006 – 2007

Graduate studies admission exam (LES), Turkey: Ranked 67th among ca. 40,000 participants, 2000

Middle East Technical University: Graduated with Honors in Engineering, 2000

University admission exam (ÖYS), Turkey: Ranked 749th among ca. 1 million participants, 1995

PROFESSIONAL EXPERIENCE

Center for Financial Studies, Frankfurt, Germany **January 2006 – July 2007**

(Part-time) HiWi mit Abschluß (Database and Content Management System Consultant)

- Designing relational databases in line with the institution’s data needs, and developing database queries in MySQL and MS Access to extract the required information for the finance institute.
- Consulting the institute on the efficient use of the new content management (web) system to support their activities regarding research, conferences, deutsche bank prize.
- Managing the recently developed web portal of the institute and maintaining it.

ACCENTURE, Istanbul, Turkey**June 2005 – October 2005***Consultant for Financial Services*

- Carried out projects within two large-sized banks in Turkey as a member of the team that analyzed the banks' underwriting processes of the corporate credits and collaterals, and communicated the results to high-level executives, as well as to technical audiences at these banks.
- The projects focused on the gap analysis and definition of the new target business models and technical infrastructures for the commercial credits sections of the banks. The outputs of the projects were the new data models, gap analyses, application architectures, functional requirements, quick-wins and detailed implementation master plans.

HSBC Bank, Istanbul, Turkey**October 2000 – May 2005***Analyst and Programmer (Corporate Loans and Collaterals)*

- Acted as a project manager, analyst and software developer within various project teams that consisted of front-office business staff, IT business analysts and software developers.
- Member of the large international Basel II accord team that implemented the HSBC Group's capital adequacy and risk management project, called GLEAM, on the local site; tasks involved various risk-weighted asset calculations and quantitative risk models.
- Designed the new "Approval Infrastructure", a mid-layer addition between the front-end and back-end applications, for the whole "core-banking" system of the bank, and meanwhile conducted the necessary functional & technical analyses. Afterwards, led this project, and also involved in the implementation and software development phases.
- Managed & carried out numerous data-intensive and integration software developments, including applications on collateral and commercial loans, a software generator that helped developers to develop their applications in an automated, parametric and standardized way, among others.

SKILLS AND
PERSONAL
INFORMATION**Computer:**

- Programming Languages (Expert): Matlab, Python, SQL programming, C++, Java, Visual Basic for Applications (VBA), Microsoft Access.
- Statistical Packages (Expert): Stata, Eviews, SAS.
- Databases (Experienced): EMIR/DTCC, GLEIF, WRDS (Bank Regulatory, Bureau Van Djik, Bankscope, Orbis, CRSP, Compustat, Execucomp, Markit), Datastream, LexisNexis, Bloomberg.
- Others (Advanced): Hadoop (Big Data, HDFS, MapReduce), High-Performance Computer (HPC) Clusters, Optimization Tools, XML/HTML, L^AT_EX.

Language:

- English (Fluent), German (Advanced), French (Intermediate), Spanish (Beginner)

Personal:

- Citizenship: German

REFERENCES

Prof. Ron Anderson
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Prof. Rajna Gibson Brandon
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