JEAN-PIERRE A. ZIGRAND

ACADEMIC CV

April 25, 2023

PERSONAL INFORMATION

• Date of Birth: 5.9.1968

• Citizenship: Luxembourgish

• Civil Status: Married, two sons

• Languages: Fluent (speaking and writing) in French, German, English, Luxembourgish

• Sports: Karate (Sensei, sandan) and tennis

PHONE, FAX, EMAIL

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EDUCATION

- The University of Chicago, Ph.D. in Economics, June 1998
- The London School of Economics, European Doctoral Program in Mathematical Economics, 1993
- Université Catholique de Louvain, Licence et Maîtrise (B.A.&M.A.) in Economics, Summa Cum Laude, Ranked No.1, 1992

- Summer School in Incomplete Markets, The Hebrew University of Jerusalem, 1997
- Summer School in Economic Theory, La Sorbonne, 1993

ACADEMIC POSITIONS

- Director, Systemic Risk Centre, London School of Economics, ESRC financed, jointly with Dr. Jon Danielsson, 2012-
- Co-Director, Financial Markets Group, London School of Economics, jointly with Dimitri Vayanos and Simeon Djankov, May 2018-
- Associate Professor, London School of Economics, 1998-
- Programme Director, Executive MSc Finance, 2010-present.
- Visiting Scholar, CORE, Université Catholique de Louvain, Summer of 1997
- Class Teacher, The London School of Economics, 1992/93
- Research Associate, Commission of the European Communities, 1991/92

REFEREEING AND OTHER PROFESSIONAL SERVICES

- Econometrica
- Journal of Finance
- Review of Economic Studies
- Review of Financial Studies
- Journal of Political Economy
- Mathematical Finance
- Journal of Mathematical Economics
- Journal of Economic Dynamics and Control
- Economic Journal
- British Actuarial Journal
- Journal of Banking and Finance

- Journal of Financial Stability
- Annals of Operations Research
- Quantitative Finance
- Journal of Financial Intermediation
- European Journal of Law and Economics
- On editorial board of Luxembourg Economic Papers.
- Co-organiser Econometric Society European Winter Meetings, 2020

AWARDS AND GRANTS

- Secured post-doc funding from IHS-Markit for 2021-2023
- Secured funding from UBS for a joint research event, 2021
- Awarded a 5 year £5m ESRC Research Centre on Systemic Risk.
 Co-Director with Jon Danielsson, extended with continuation funding for 5 more years in 2018. The Systemic Risk Centre (SRC),
 www.systemicrisk.ac.uk, has become the go-to place for relevant research on the analysis and regulation pertaining to systemic risk in financial markets. The SRC organises regular seminars, conferences, workshops and PhD master classes attended by the top academics, policy makers and practitioners.
- Secured in December 2016 a GBP 200,000.00 research grant by Deutsche Börse to SRC on the CMU
- Secured in January 2017 an intercontinental grant on "Digging into High Frequency Data: Present and Future Risks and Opportunities (ATLANTIS)', with SAFE (Goethe University Frankfurt, Germany), Haas School of Business (University of California Berkeley, USA), Centre National de la Recherche Scientifique (Laboratory EUROFIDAI, Grenoble, France), Isenberg School of Management (UMass Amherst, USA) and Hanken School of Economics (Helsinki, Finland)
- Secured small number of private donations to SRC
- Impact Case Study submitted for LSE to REF 2014 (under the category "Accounting and Management Departments") on "Smarter regulation of financial markets." The REF exercise 2014 put the LSE as number one in the UK in this category.

- ESRC Co-Investment Pilot on "New Finance High-frequency Trading Risk Simulation"
- EPSRC Research Grant entitled "Price Dynamics under Aggregated Decision Making in Financial Markets with Uncertainty and External Constraints" Two year grant July 2004-2006. Joint with Jon Danielsson, Amil Dasgupta and Hyun Shin. Laid the foundation for our endogenous risk models
- ESRC 'Research Proposal for the ESRC World Economy and Finance Programme,' title "Stability of the Global Financial System: Regulation and Policy Response"
- Involved in successful grant applications from AXA to establish the AXA/FMG Research Fund, from AIM (Hedge Fund of Funds) and Lehman Brothers
- Nominated in 2015 for the LSESU Student-Led Teaching Excellence Awards 2015
- Awarded Teaching Prize during Major Review, together with one additional recurrent increment
- Consistently reach very high teaching marks and positive student feedback
- Elected "Teacher of the Year" in 2000/2001 by MSc Finance and Economics students
- Research Grant, Ministry of Education and Research, Luxembourg, 1997-1998
- University of Chicago Unendowed Fellowship of Two-Third Tuition, 1993-1994, extended to Full Tuition and Stipend, 1994-1997
- Fellow of the Rotary Foundation, 1994
- Commission for Educational Exchange Scholarship, Belgium, 1993-1995
- Postgraduate Grant, Ministry of Education and Research, Luxembourg, 1992-1997
- Erasmus Scholarship of the European Communities, 1992

PUBLISHED PAPERS

- "Layered Networks, Equilibrium Dynamics, and Stable Coalitions," (with Jing Fu and Frank Page) [2023 (forthcoming), Dynamic Games and Applications]. Possibly the first work on the dynamics of layered networks, and we do this via club networks in which connections between layers is brought about by overlapping club memberships. We show there is a unique decomposition of the set of statenetwork pairs into a transient set together with finitely many basins of attraction. Moreover, we show that if there is a basin containing a vio set (a visited infinitely often set) of club networks sufficiently close together, then the coalition structures across club networks in the vio set will be the same (i.e., closeness across networks in a vio set leads to invariance in coalition structure across networks in a vio set).
- "Information acquisition, price informativeness, and welfare," joint with Rohit Rahi, *Journal of Economic Theory*, September 2018, Vol.177, pp.558–593
- "Designating market maker behaviour in Limit Order Book markets," joint with Jon Danielsson, Gareth Peters and Stathi Panayi, Econometrics and Statistics, 5, January 2018, Pages 20-44
- "Walrasian Foundations for Equilibria in Segmented Markets," joint with Rohit Rahi, Mathematics and Financial Economics, 2015
- "Endogenous Extreme Events and the Dual Role of Prices," joint with Jón Danielsson and Hyun Song Shin, *Annual Reviews in Economics*, Volume 4 on the *Economics of Extreme Events*, 2012, pp. 111-129.
- "Endogenous and Systemic Risk," joint with Jón Danielsson and Hyun Song Shin, chapter in NBER book *Quantifying Systemic Risk* (2013), edited by Joseph G. Haubrich and Andrew W. Lo (p. 73 94), University of Chicago Press
- "Fundamental Liquidity," Revue de Stabilité Financière de la Banque Centrale du Luxembourg, 2011, 106-114.
- "What do Network Theory and Endogenous Risk Theory have to say about the effects of CCPs on Systemic Stability?", Banque de France Financial Stability Review 14, 2010.
- "Modelling Financial Turmoil through Endogenous Risk and Risk Appetite," Revue de Stabilité Financière de la Banque Centrale du Luxembourg, 2010.
- "Strategic Financial Innovation in Segmented Markets," joint with Rohit Rahi, Review of Financial Studies 22(8), 2009, 2941-2971.

- "Equilibrium Asset Pricing with Systemic Risk," joint with Jón Danielsson. Published *Economic Theory*, 35/2, May 2008.
- "Regulating Hedge Funds," joint with Jón Danielsson. Published, Banque de France Financial Stability Review- Special Issue on Hedge Funds, No. 10, April 2007.
- "On Time-Scaling of Risk and the Square-Root-of-Time Rule," joint with Jón Danielsson. Published *Journal of Banking and Finance*, 30, 2006, 2701-2713.
- "Endogenous Market Integration, Manipulation and Limits to Arbitrage." Published, Journal of Mathematical Economics, 42, 2006, 301-314.
- "Rational Asset Pricing Implications from Realistic Trading Frictions." Published, *Journal of Business*, 78-3, 2005, 871-892.
- "Highwaymen or Heroes? Should Hedge Funds be Regulated? A Survey," joint with Jón Danielsson and Ashley Taylor. Published, *Journal of Financial Stability*, 1, 2005, 522-543.
- "The Impact of Risk-Regulation on Price Dynamics," joint with Jón Danielsson and Hyun Shin. Published, *Journal of Banking and Finance*, 28, 2004, 1069–1087.
- "A General Equilibrium Analysis of Strategic Arbitrage." Published, Journal of Mathematical Economics, 40, 2004, 923–952.
- "Physics of Finance" presented at the Rencontres de Physique de la Vallée d'Aoste, Results and Perspectives in Particle Physics, organized by the Istituto Nazionale di Fisica Nucleare, March 2000. Now published in Frascati Physics Series, 17 Issue, 2000.

WORK IN PROGRESS

- "The calming of short-term market fears and its long-term consequences: The central banks' dilemma," joint with Jon Danielsson, Lerby Ergun and Andreas Uthemann. Presented at LSE LTW, Bank of England, ECB, BIS, Bank Of Canada, U of Lugano, London Quant Group, UBS. Rejected from JF, rewriting for RFS.
- "Book Value: The investment performance of collectable books," joint with Andrew Rudd. I have spent much of this year gathering data up to and including 2022 from auction records. Each repeat sale data point is a chore, and I am atm in the process of recruiting an RA to help me out.

- "Impact of monetary policy announcements on long and short term risk" is a preliminary paper with Jon Danielsson, Mathia Bevilacqua and Andreas Uthermann, connecting a dataset of Covid-19 news with long-term derivatives prices.
- "Arbitrage Categories," sole authored paper, presented at LSE LTW and at Econometric Society Winter Meetings.
- "Common Knowledge, Coordination and Rational Limits to Arbitrage."
- "Market Resilience," joint with Jon Danielsson, Efstathios Panayi and Gareth Peters.
- "Shocked about news shocks?" joint with Jon Danielsson, Lerby Ergun, Andreas Uthemann and Paul Whelan.
- "The markets' views of long and short term risks of Covid-19" is a preliminary paper with Jon Danielsson, Antonio Mele and Andreas Uthermann, connecting a dataset of Covid-19 news with longterm derivatives prices.
- "Adding Fuel to the Fire: Trading quality single-stock bubbles" is a preliminary empirical paper into bubble investing, together with Jon Danielsson, Phillip Adämmer and Yves Klemmer.
- "Real Estate Cycles" is a preliminary empirical paper on property cycles using spectral analysis.
- "Procyclical and Endogenous Risk," joint with Jon Danielsson and Hyun Shin.
- "Systemic Risk and the Dynamics of Temporary Financial Networks," joint with Frank Page and Rui Gong.
- "Supernetworks and Systemic Risk," joint with Jing Fu and Frank Page
- "Spheres of Influence, Tipping Points, and Endogenous Systemic Risk in Dynamic Network Formation Games," joint with Jing Fu and Frank Page
- "Fragmented Markets and Contagion," joint with Rohit Rahi.
- "Valuation Uncertainty and Disagreement in OTC Derivatives Markets: Evidence from Markit's Totem Service" (preliminary title), together with Jon Danielsson, Lerby Ergun and Andreas Uthemann. Presented at SRC/LSE conference in 2015.
- "The economics and statistics of repeat-sales indices," joint with Anurag Banerjee (Durham) and Oliver Linton (Cambridge)

- "Feedback Effects and Changes in the Diversity of Trading Strategies," joint with Hyun Shin and Daniel Beunza
- "Arbitrage Networks," joint with Rohit Rahi. To be resubmitted.
- "Systems and Systemic Risk", SRC Special Paper 1, got offer to extend and convert to book form by Imperial College Press. Most downloaded paper from the SRC website.
- "Central Counterparties and Endogenous Risk," joint with Jon Danielsson and Hyun Shin.
- "Consistent Measures of Risk," joint with Jon Danielsson et al.
- "Financial Innovation in Arbitrage Networks," joint with Rohit Rahi.
- "Arbitrage Networks: The Three Exchange Case,", joint with Rohit Rahi.
- "On the Mechanics of Endogenous Risk," joint with Jón Danielsson.
- "A Reexamination of the Effects of Derivatives on the Underlying Securities."
- "Optimal Taxation in Economies with Incomplete Markets."

OTHER PUBLICATIONS

- "On the financial market consequences of Brexit," with Jon Danielsson and Robert Macrae, 24 June 2016, VOX-EU (15457 reads)
- "Why macropru can end up being procyclical" with Jon Danielsson, Robert Macrae and Dimitri Tsomocos, 15 December 2016, VOX-EU (4870 reads)
- "The Regulatory Challenge of High-Frequency Markets" (2013), joint with Oliver Linton, and Maureen O'Hara, in *High-Frequency Trading*, O'Hara, Maureen and Marcos Lopez de Prado and David Easley (editors), Risk Books.
- Article in Markit magazine sharing relevant information of systemic risk research with practitioners and other stakeholders, http://content.markitcdn.com/corporate/Company/Files/MagazineEntireIssue?

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- Vulgarisation articles online (e.g. VOX, Markit Magazine) and in newspaper articles (e.g. Financial Times, Wort, Paperjam).
- Preparing a book on Systemic Risk.
- Preparing a textbook on the mathematical and probabilistic foundations of financial economics, based upon our lecture notes for the course "Quantitative Methods for Finance," with Antonio Mele. On hold.

IMPACT and CONSULTING WORK FOR REGULATORS, SUPERVISORS AND PUBLIC BODIES

- Director of the **Systemic Risk Centre** (SRC) at LSE (2012-), and as such I have organised a few dozen high level conferences, bridging the highest levels of academia, policy making and the financial sector.
- Co-Director of the **Financial Markets Group** (FMG) at LSE (starting May 2018).
- I am a member of the Bank of England's Macroprudential Panel Market Subgroup (comprising three outside members, 2015-), under the leadership of Alex Brazier, Executive Director, Financial Stability Strategy & Risk, where the research I do flows directly into the Bank of England's policy thinking.
- Advisor to the House of Lords on **FSM Bill 2023** the Financial Services and Markets Bill 2023 in particular clause 25 on financial regulations and climate change
- Member of the Foundation of the Banque Centrale du Luxembourg (2011-2020, 9 year limit).
- Working with the Financial Stability Board, invited to the FSB WS meeting on structural vulnerabilities from asset management activities with market participants, September 2016, London.
- Wrote a successful Impact Case Study for REF 2014, http://www.lse. ac.uk/researchAndExpertise/researchImpact/caseStudies/ zigrand-helping-regulators-prevent-next-financial-crash.aspx
- Regular presenter to the All Party Parliamentary Group on Wholesale Financial Markets & Services, in the House of Commons, including on the Capital Markets Union. Senate Senate Banking Committee and House Committee on Financial Services
- Regular visitor to ESMA over Mifid II

- Zigrand was invited in 2013 to Washington to present his research on computer-based trading and the systemic risks within that to the Senate Banking Committee, to the House Committee on Financial Services, to the CFTC (including then-commissioner O'Malia) as well as to Senator Coons (the successor to Senator Ted Kauffman).
- Active within ESRC-FSKTN. I participated on August 2 at an ESRC-FSKTN organised event on Supporting Innovative Research through Access to Business Data exploring ways to explore the funding available to ERSRC for the Datasafe project. I also participated in the ESRC-FSKTN organised workshop on 'Financial Stability' on 27th February 2014. The purpose of the workshop was to establish any research gaps in the ESRC offering.
- Future of computer-based trading. Paper presented by JP Zigrand at *The Future of Finance: Structure, Innovation & Ethics* conference, Financial Services, Knowledge Transfer Network (FSKTN), Oxford (2013)
- Lead Expert in the UK Treasury-BIS project on "The Future of Computer Trading," 2010-2012, together with Charles Goodhart, Oliver Linton, Dave Cliff, Philip Bond, Kevin Houstoun, and Andy Haldane, chaired by Dame Clara Furse and Sir John Beddington.
- Consulted regulators and supervisors on Mifid II. Invited to inform the European Commission by Mr. Bassi (September 2011, September 2012), and by Mr. Buenaventura to inform ESMA (December 2011). Presented the findings to the European Parliament's ECON committee the day before the Mifid II vote (25 October 2012). Invited by Commissioner Barnier and JRC Director-General Dominique Ristori to present at the high-level roundtable on 'Scientific support to financial analysis: How can science contribute to financial stability?' (12 November 2012).
- Presented the findings of the Foresight report at the Senate Banking Committee and House Committee on Financial Services, Washington DC, March 2013.
- Jean-Pierre Zigrand participated and presented a paper on computer-based trading, together with Prof. Philip Bond, at the FSKTN organised conference in Oxford on 20-30 May 2013. The conference was called the 'Future of Finance Conference.'
- Testified to the UK Parliamentary Commission on Banking Standards, chaired by the Lord Bishop of Durham, Justin Welby (26 November 2012).
- Consultant to the Luxembourgish Central Bank.

- Consultant to HM Treasury on their Consultation "A new approach to financial regulation: judgement, focus and stability," November 2010.
- Invited to present at the "Macroprudential Conference" of the Bank of England, November 2010.
- Invited to attend the "Foresight Networked Governance Project" workshop on the Future of Finance, organised by the UK Government Office for Science, July 2010.
- Invited by the Governor of the Banque de France to present at the official launching of the "Banque de France Financial Stability Review," Paris, July 2010.
- Invited by Governor Mersch to present at the official launching of the "Revue de Stabilité Financière" of the Banque Centrale du Luxembourg, Luxembourg, 2010, 2011 and 2012.
- Invited by Governor Reinesch to present at the official launching of the "Revue de Stabilité Financière" of the Banque Centrale du Luxembourg, Luxembourg, 2013.
- Invited by Commissioner McCreevy to present at the Conference on "Derivatives in crisis: safeguarding financial stability," organised by the European Commission's DG Internal Markets and Services. Panel member with Gary Gensler and Mario Nava, September 2009.
- Invited by Jean-Pierre Landau, Deputy Governor of the Banque de France, to contribute to the Special Issue on Hedge Funds, Banque de France Financial Stability Review.
- Regular contributor to the CCBS at the Bank of England on regulatory topics.
- Occasional consultant to the FSA on questions of hedge fund regulation.
- Consultant to the Luxembourgish Ministry of Culture, Higher Education and Research, 1998-present.

RECENT INVITED NON-ACADEMIC PRESENTATIONS (selection)

- Invited high profile public lecture and magazine write-up by Paperjam in Luxembourg on the fundamentals and the valuation of the Luxembourgish estate market, December 2nd 2020
- Invited presentation on "Pricing of long-term uncertainty shocks" at LQG Spring Seminar, London, 2019
- Invited to presentation on "Money and Finance" at LQG Autumn Seminar Oxford, 2017
- Invited to give keynote speech on "Unexpected Risk: Financial Markets, Human Behavior and High Frequency Trading," at the *Finadium Investors in Securities Lending Conference*, April 26-27, 2017
- Moderated a panel at the Deloitte-Elvinger Conference in Luxembourg, 2 March 2016, on "Cross-border distribution in the context of systemic risk"
- Induction speech at the *Institut Grand-Ducal* on "50 Shades of Systemic Risk," January 2015.
- Invited to the Jeremy Vine Show on BBC, on Brexit, 18.5.2016
- Presentation on "Global Financial Security: Are we safer now than in 2008?" to the LSE North American Advisory Board, October 2015.
- Keynote speaker ("The Key Drivers Shaping Post-Crisis Global Finance") at ALFI Conference, London, April 2015, with some 800 delegates in the audience
- Invited debater in the November 2014 Paperjam Oxford Union Debate on "The Financial Crisis: Have we learned the right lessons?" Together with Yves Nosbusch on the Yes side, opposing Franz Fayot (Luxembourgish MP) and Nicolas Henckes (Director of the Employer's Association).
- JP Zigrand participated in a panel discussion at the International conference on "Tendências Actuais e Perspectivas de Evolução da Regulação e Supervisão do Sector Financeiro Na UE e em Termos Internacionais" in Lisbon on 19 June 2014, organised by the Central Bank of Portugal and CIRSF.
- Keynote speech and paper at the Deloitte, EHP and RBSL Conference "Cross Border Distribution the Journey continues?" by JP Zigrand in New Luxembourg Congress Centre Kirchberg, 2013

BOOK REVIEWS etc

- Endorsement for MacLean and Ziemba's book on "Problems in Portfolio Theory and Theory of Financial Decision Making," published by World Scientific, 2016.
- Endorsement for William Ziemba and Raymond Vickson's book "Stochastic Optimization: Models in Finance," published by World Scientific, 2006.
- William C. Hunter, George G. Kaufman, and Michael Pomerleano, "Asset Price Bubbles. The Implications for Monetary, Regulatory, and International Policies," MIT Press, 2003, "The Economic Journal," Volume 114, 2004.
- Peter D. Spencer, "The Structure and Regulation of Financial Markets," Oxford University Press, 2000. Appeared in "The Economic Journal," Volume 112, February 2002.

TEACHING

- Financial Engineering (FM408), 2007 New course preparation. Course leader. MSc Finance elective.
- Quantitative Security Analysis (FM412), 2019- I took over from Vasant and totally remodelled.
- Financial Systems and Crises (FM200), 2017-2019 New course preparation. BSc Finance compulsory course.
- Advanced Asset Pricing Theory (FM438), 2013-2015 New course preparation. Course leader. MSc Finance and Economics elective.
- Options, Futures & Other Financial Derivatives (AF360), 1998-present. Summer School lectures and classes on derivatives in continuous time.
- Taught many LSE executive courses (Executive Summer School, Executive Global Masters in Management, bespoke executive teaching)
- I organised in the **Systemic Risk Centre PhD Masterclasses**, including "Risk Management Issues in Central Counterparty Clearing," "Heavy Tails & Extreme Value Theory and Market Risk & Systemic Risk," "Risky Strategic Interactions and the Emergence of Stationary Network Dynamics" and "Static and Dynamic Portfolio Theory and Applications."

- Financial Economics (FM436), 1998-2013. Essentially a new course preparation. Lectures and classes on continuous time finance in the MSc Finance and Economics program.
- Quantitative Methods for Finance (FM458), 2002-2008. New course preparation. Lectures and classes on probability theory, stochastic integration and the theory of stochastic processes.
- Derivatives (FM441), 2000-2008. Course leader. MSc lectures on derivatives, in particular their pricing in continuous time.
- Topics in Financial Markets (FM502), 2000-2005. Ne course preparation. Lectures and classes on recent models of systemic risk and of crashes (2000, 2001), on recent models of non-expected utility and its applications to financial economics (2002), and on the infinite dimensional mathematical foundations of the Fundamental Theorem of Asset Pricing (2003, 2004) in our PhD program.
- ESRC Advanced Postgraduate Training Programme in Asset Pricing at the Xfi Centre for Finance and Investment at University of Exeter. December 2004, December 2006, September 2010.
- Quantitative Methods in Accounting and Finance (AC550), 2000-2001. Introductory calculus and real analysis lectures to students in the MSc Accounting and Finance degree.
- Principles of Finance (FM212), 1998-2001. Class teacher for this second-year comprehensive introduction to financial markets and corporate finance. The lectures were taught by Professors John Board and David Webb.
- Microeconomics, 1999-2000. Basic microeconomics for new Arthur Andersen recruits as part of their compulsory training.
- Macroeconomic Principles (EC210), 1992-1993. Class teacher for Professors Chris Pissarides and Charlie Bean.

ADMINISTRATION

- Co-Director, Systemic Risk Centre and Financial Markets Group
- Member of the Research Committee at LSE, 2018-2020
- Member of the **Research Centre Directors Forum** at LSE since 2012
- Member of the Academic and Student Affairs Committee (ASC) at LSE (Autumn 2015-2018)

- Programme director, Executive MSc Finance, 2010-2020
- Exam Board Chair, MSc Finance, 2010-2015, on a rotating basis after that
- I looked after the 9 PhD students attached to the Systemic Risk Centre, organise internal seminars and away days
- Active in School wide Fund Raising. Regular contributor to the LSE North American Advisory Group. Successful among others with the Hillary Till and John Phelan gifts to the School
- Programme director, MSc Finance and Economics, Lent 2009, Lent 2010, Lent 2011, Lent 2012
- Undergraduate exam subboard chair for Accounting and Finance, 2005-2008
- In charge of corporate liaisons for the Department 1998-2008 of Accounting and Finance. Set up a new forum, the "External Speaker Series"
- Involved in FMG and Department research focused corporate fund and institutional fund raising (Lehman, IAM, ESRC and more)
- Organised the FMG Lunchtime Seminar Series, 2002-2005
- Developed, with Jón Danielsson, the Department of Accounting and Finance's placement web site
- Undergraduate selector for the Accounting and Finance department, 1998-2004
- Postgraduate selector for the MSc Finance and Economics and MSc Finance, 2004-present
- Occasional PhD selector
- Internal examiner for PhD students (Spyros Pagratis, Piotr Zurawski, Inna Grinis)
- PhD advisor to Xuewen Liu (Imperial College, Hong Kong University of Science and Technology) and Jason Donaldson (Washington University St. Louis)

MISCELLANEOUS

• Elected as 'Membre Correspondant' to the *Institut Grand-Ducal*, the Luxembourgish learned society.

- Consultant to private sector banks and private wealth management companies.
- Board member of private companies.
- Executive educator.
- Feature in Raymond Reuter's picture book "100 Letzebuerger Ronderem d'Welt."