EDHEC BUSINESS SCHOOL

Jérémy Leymarie, PhD

Assistant Professor – Speciality: Data Science

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EDUCATION

2016 – 2019	**Ph.D. in Econometrics and Finance** **Maastricht University, Netherlands (joint with University of Orléans, France)** Title: « Three Essays in Financial Econometrics » (UM archive) Supervisors: Prof. Alain Hecq, Prof. Christophe Hurlin Committee: Prof. Franz Palm (chairman), Prof. Sébastien Laurent, Prof. Jean-Michel Zakoïan, Prof. Nalan Basturk Defense: December 5, 2019 (in Maastricht)
oct. nov. 2019	**Visiting Scholar** **University of Vienna, Austria** Sponsor: Prof. Nikolaus Hautsch
oct. nov. 2018	**Visiting Scholar** **Maastricht University, Netherlands** Sponsor: Prof. Alain Hecq
2014 – 2015	**Master in Econometrics and Applied Statistics** **University of Orléans** high honours, ranked 1st
2009 – 2013	**Bachelor in Economic Policy Analysis** **University of Auvergne** high honours, ranked 2nd

ACADEMIC EXPERIENCE

Feb. 2021-	**Assistant Professor, EDHEC Business School, Lille, France**
Jan. 2020-Jan. 2021	**Postdoctoral Researcher, Faculty of Business, Economics and Statistics, University of Vienna, Austria** Mentor: Prof. Nikolaus Hautsc

PUBLICATIONS

ACADEMIC PUBLICATIONS

- "**Backtesting Marginal Expected Shorfall and Related Systemic Risk Measures**" with D. Banulescu, C. Hurlin, O. Scaillet, 2020. *Management Science* (FT50, 4* CNRS, Rang A HCERES).
- "**Loss Functions for Loss Given Default Model Comparison**" with C. Hurlin, and A. Patin, 2018. *European Journal of Operational Research*, Vol 268, Issue 1, 348-360 (4* CNRS, Rang A HCERES).

WORKING PAPERS

- "**Backtesting Expected Shortfall via Multi-Quantile Regression**", with O. Couperier, 2020. *Best Paper Award of the Annual Meeting of the German Finance Association*, 2019.
- "**Granger-Causality in Conditional Quantiles and Financial Interconnectedness**", with S.Hué (2020).
- "**Big Data: A New Trick for Credit Scoring ?**", 2017.

WORK IN PROGRESS

- "**Elicitability of Marginal Expected Shortfall and Related Systemic Risk Measures**", with S. Benoit, O. Couperier, O. Scaillet, 2020.
- "**On the Measurement of Estimation Uncertainty for Systemic Risk Measures**", with N. Hautsch, 2020.
- "**Vector Autoregressive Model for Value-at-Risk and Expected Shortfall**", 2020.
- "**Recovery Cycle for the Loss Given Default using Panel Data Econometrics**", with C. Hurlin, 2020.

RESEARCH INTERESTS

Primary: Banking regulation, Data science, Financial econometrics, Risk management.
Secondary: Big Data analytics.

SCHOLARSHIPS, GRANTS, AWARDS

2021 – 2022 **Research grant sponsored by the Fondation Banque de France (30ke)**
Awarded project: Elicitability of Marked-Based Systemic Risk Measures
Participants: S. Benoit (University Paris-Dauphine), O. Couperier (CREST), O. Scaillet (University of Geneva), J. Leymarie (EDHEC Business School).

2020 **French Finance Association (AFFI) Thesis Prize in Financial Markets** (more here).

2018 – 2019 **Research grant sponsored by the Fondation Banque de France (30ke)**
Awarded project: Backtesting Systemic Risk Measures (more here)

Participants: D. Banulescu (University of Orleans), C. Hurlin (University of Orleans), O. Scaillet (University of Geneva), J. Leymarie (University of Orleans).

2019 **Best Paper Award at the Annual Meeting of the German Finance Association**.

2017 **3rd Best Paper Award at the Augustin Cournot Doctoral Days Conference.**

2016 – 2018 **Ph.D. Scholarship**
French Ministry of Education and Scientific Researc

PARTICIPATION IN FUNDED RESEARCH PROJECTS

2021 - 2024 **Research funding from the Oesterreichische Nationalbank (OeNB, National Bank of Austria), 202ke**
Project: Econometrics of Systemic Risk: Inference, Model Comparison and Network Dependencies
Coordinator: Nikolaus Hautsch and Jérémy Leymarie (University of Vienna)

2020 - 2023 **ANR CaliBank (ANR-19-CE26-0002-02), 296ke**
Project: The Post-Crisis Banking Industry: How will banks respond to tighter regulatory contraints ?
Coordinator: Amine Tarazi (University of Limoges)

2017 - 2020 **ANR MultiRisk (ANR-16-CE26-0015-01), 261ke**
Project: Econometric Methods for the Modelling of Multiple Risks
Coordinator: Christophe Hurlin (University of Orléans), Gaëlle LeFol (University Paris Dauphine), Jean-Michel Zakoian (CREST)

CONFERENCES AND WORKSHOPS

1. **AFFI**, 37th International Conference of the French Finance Association, Audencia Business School, Nantes, 26-28 May, 2021 (virtual)
2. **ERFIN**, 5th Econometric Research in Finance Workshop, Warsaw School of Economics, 18 september 2020 (virtual) *
3. **World Congress of the Econometric Society**, Bocconi University, August 17-21 2020 (Virtual)
4. **Workshop ANR MultiRisk**, CREST, Paris, 18 December 2019
5. **Journée d'Econométrie**, 18th conference "Développements Récents de l'Econométrie Appliquée à la Finance", University of Nanterre, France, November 13, 2019 *
6. **DGF**, 26th Annual Meeting of the German Finance Association, Essen, Germany, September 27-28 2019 *
7. **ESEM**, 72nd European Meeting of the Econometric Society, Manchester, UK, August 26-30 2019 *
8. **Matinale Europlace Institute of Finance and Banque de France Foundation**, Institut Louis Bachelier, Palais Brongniart, Paris, France, July 03 2019 *

9. **IAAE**, 6th Annual Conference of the International Association for Applied Econometrics, Nicosia, Cyprus, June 25-28 2019 *
10. **AFFI**, 36th International Conference of the French Finance Association, Québec City, Canada, Université Laval, June 17-19, 2019
11. **SOFIE**, 12th Annual Conference of the Society for Financial Econometrics, Shanghai, China, June 11, 2019 (Pre-Conference) *
12. **INFINITI**, 2019 INFINITI Conference on International Finance, Adam Smith Business School, University of Glasgow, Scotland, 9-11 June 201
13. **QFFE**, 2nd Quantitative Finance and Financial Econometrics International Conference, Aix- Marseille School of Economics, France, 5-7 June 2019 *
14. **FMND**, 4th International Workshop on "Financial Markets and Nonlinear Dynamics", Paris, Hotel Provinces Opéra, 31 May - 1 June 2019
15. **FEBS**, 9th International Conference of the Financial Engineering and Banking Society, Univer- sity of Economics, Czech Republic, Prague, 30 May - 1 June 2019 *
16. **Workshop ANR MultiRisk**, Florence, Italy, Villa Finaly, April 28 - May 1, 2019
17. **AMEF**, 5th International Conference on Applied Theory, Macro & Empirical Finance, April 22-23, Thessaloniki, Greece *
18. **MFS**, 7th Spring Conference of the Multinational Finance Society, April 19-21,Chania,Greece *
19. **8th PhD Student Conference in International Macroeconomics and Financial Econometrics**, University of Nanterre, Paris, March 29, 2019 *
20. **WFE**, Workshop in Financial Econometrics, University of Nantes, France, 21-22 March 2018
21. **Risk Forum**, 12th Financial Risks International Forum, Institut Louis Bachelier, Paris, 18-19 March 2019
22. **CFE**, 12th International Conference on Computational and Financial Econometrics, University of Pisa, Italy, 14-16 December 2018 *
23. **Journée d'Econométrie**, 17th conference "Développements Récents de l'Econométrie Appliquée à la Finance", University of Nanterre, France, November 7, 2018 *
24. **IAAE**, Annual Conference of the International Association for Applied Econometrics, Montréal, Canada, June 26-29, 2018
25. **2018 RiskLab/BoF/ESRB Conference on Systemic Risk Analytics**, RiskLab at Arcada, Bank of Finland and European Systemic Risk Board, Helsinki, Finland, 28-30 May, 2018
26. **AFFI**, 35th Spring International Conference of the French Finance Association, ESCP Europe, Paris, May 22-24, 2018
27. **AFSE**, 67th Annual Meeting of the French Economic Association, Paris School of Economics, Paris, May 14-16, 2018
28. **7th PhD Student Conference in International Macroeconomics and Financial Econometrics**, University of Nanterre, Paris, March 16, 2018
29. **2nd International Bordeaux Workshop in Quantitative Finance, Risk, and Decision Theory**, Unversity of Bordeaux, France, November 24, 2017
30. **Journée d'Econométrie**, 16th conference "Développements Récents de l'Econométrie Appliquée à la Finance", University of Nanterre, France, November 8, 2017
31. **JEAM**, 5th applied macroeconometric workshop "Journée d'Econométrie Appliquée à la Macroéconomie", University of Paris 13, France, October 13, 2017
32. **CREDIT**, 16th International Conference on Credit Risk Evaluation, Italy, Venice, September 28-29, 2017 (poster)
33. **Bank Colloquium for Junior Researchers: The Future of Bank Regulation**, Limoges, France, June 28, 2017

34. **MFS**, 24th Annual Conference of the Multinational Finance Society, Bucharest, Romania, June 25-28, 2017 *
35. **INFER**, 19th Annual Conference of the International Network for Economic Research, Bordeaux, France, June 7-9, 2017 *
36. **ACDD**, 14th Augustin Cournot Doctoral Days, Strasbourg, France, April 27-28, 2017
37. **SNDE**, 25th Annual Symposium of the Society for Nonlinear Dynamics and Econometrics, Paris, France, March 30-31, 2017
38. **SMYE**, 22nd Spring Meeting of Young Economists, Halle (Saale), Germany, March 23-25, 2017
39. **VieCo**, Vienna–Copenhagen Conference on Financial Econometrics, Vienna, Austria, March 9-11, 2017
40. **CFE**, 10th International Conference on Computational and Financial Econometrics, Seville, Spain, December 9-11, 2016
41. **FEC**, 8th French Econometrics Conference, ESSEC, Cergy, France, November 17-18, 2016
42. **Journée d'Econométrie**, 15th conference "Développements Récents de l'Econométrie Appliquée à la Finance", Paris Ouest - Nanterre La Défense, France, November 4, 2016
43. **MIFN**, 10th International Workshop of Methods in International Finance Network, Canterbury, UK, October 27-28, 2016
44. **NFR Seminar**, 5th New Financial Reality Seminar, University of Orléans and Kent University, France, October 3, 2016
45. **ERFIN**, Econometric Research in Finance Workshop, Warsaw School of Economics, Poland, September 16, 2016
46. **ESEM**, 69th European meeting of the Econometric Society, Geneva, Switzerland, August 22-26, 2016
47. **AFSE**, 65th Annual Meeting of the French Economic Association, Nancy, France, June 27-29, 2016
48. **FEBS**, 6th International Conference of the Financial Engineering and Banking Society, Malaga, Spain, June 10-12, 2016
49. **AFFI**, 33rd French Finance Association Conference, Liège, Belgium, May 23-25, 2016
50. **ACPR Chair** "Regulation and Systemic Risk", House of Finance Day Conference, Paris, France, March 24, 2016 *

** presentations by co-authors*

SEMINARS

• **Finance seminar**, ENSAE-CREST, Paris, France, November 26, 2020 (Virtual) *
• **Job market seminar**, EDHEC, France, June 24, 2020 (Virtual)
• **Postdoc seminar**, University of Vienna, Austria, April 8, 2019
• **Postdoc seminar**, Aix-Marseille School of Economics, Marseille, France, March 29, 2019
• **Econometric seminar**, Maastricht University, the Netherlands, November 15, 201
• **Finance seminar**, ENSAE-CREST, Paris, France, April 20, 2017 *
• **Ph.D. seminar**, University of Orleans, Orleans, France, May 4, 2016

** presentations by co-authors*

REFEREEING ACTIVITIES

Referee for the reviews: Journal of Financial Econometrics, Quantitative Finance, Economic Modelling, International Economics, International Journal of Forecasting, Revue Economique, Empirical Economics, Research in International Business and Finance, Economics Bulletin.

OTHER RESEARCH RELATED ACTIVITIES

- Econometric Game contest, Amsterdam, Netherlands, 11-13 April, 2018. Captain of University of Orléans' team
- Oxmetrics summer school – Intensive Ph.D. courses (sept. 1-10, 2015) organized by the University of Aix-Marseille. Courses: financial econometrics, state-space models, econometrics for intra-day data, Ox programming. Teachers: Prof. D. Hendry, J.A. Doornik, S. Laurent, and S.J Koopman
- Member of the « Association des Doctorants et Docteurs Orléanais en Sciences de l'Homme et de la Société » (ADDOSHS) - PhD Students Association, Orléans, France (2016 - 2018)
- Training courses for research staff at the University of Orléans (2015 - 2017)
- Member of the development team for the project RunMyCode (2017)

TEACHING

MSc Management Studies - Edhec Business School (more here)
• Data Analysis (2021) - Lecture 30LH

MSc Data Analytics & Artificial Intelligence - Edhec Business School (more here)
• Advanced Machine Learning for Business (2021) - Lecture 24LH

Master, 2nd year – Banking and Finance / Statistics, Faculty of Business, Economics and Statistics, University of Vienna (more here and here)
• Seminar in Empirical Finance and Financial Econometrics (2020) - Lecture, 25 LH

Undergraduate, 1st year - Faculty of Business, Economics and Statistics, University of Vienna (more here)
• Statistics, Tutorial, 24 TH

Master, 1st year – Finance, University of Orléans (more here)
• Quantitative Techniques in Finance (2018,2019) - Tutorial, 30 TH

Master, 1st year – Econometrics & Applied Statistics, University of Orléans (more here)
• Econometrics of Discrete Choice Models (2016, 2017, 2018,2019) - Tutorial, 120 TH

Undergraduate, 3rd year – DEG, University of Orléans (more here)
• Econometrics for Finance (2019) - Lecture, 24 LH
• Mathematical Statistics (2016, 2017, 2018) - Tutorial, 75 TH
• Mathematical Statistics (sept. - nov. 2016, nov. 2017) - Lecture, 31 LH

Undergraduate, 2nd year – DEG, University of Orléans (more here)
• Game Theory (2019) - Tutoral, 10 TH
• Personal and Professional Project (2016, 2017) - Tutorial, 8 TH

RUNMYCODE PROJECT

Objective: The RunMyCode project is a web service devoted to the worldwide dissemination of scientific computer codes in the fields of business and economics. The key element in this project is the novel concept of companion website associated with a scientific paper (working paper, journal, article, monograph or textbook). The project aims to contribute for changing the way researchers spread their research and improve the reproducibility of research. The RunMyCode project is sponsored by the CNRS, HEC Paris and Sloan Foundation.

Activity: Member of the development team for RunMyCode.

My companion websites:
1. "Loss Functions for Loss Given Default Model Comparison" with C. Hurlin, and A. Patin, 2018. European Journal of Operational Research, Vol 268, Issue 1, 348-360 [companion website]
2. "Backtesting Expected Shortfall via Multi-Quantile Regression" with O. Couperier, 2018. Wor- king paper. [companion website]

COMPUTING SKILLS

• SAS (SAS BASE PROGRAMMING version 9.2 Certification)
• Matlab, R, OxMetrics, E-views, GeoDa
• LaTeX, Microsoft Office

INFORMATION SYSTEMS

• CRSP, Computstat, Datastream, Bankscope

LANGUAGES

• English – fluent
• French – mother tongue