

Régis Gourdel

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Education

- PhD in Economics and Social Sciences** Sep. 2020 — May 2025
Vienna University of Economics and Business (WU), Institute for Ecological Economics Vienna
- Thesis title: “Essays in climate risk modelling: Horizon complementarities, beliefs, and uncertainty”
 - Passed with honors; with a specialization in mathematics
- Master of Science in Applicable Mathematics** Sep. 2017 — Aug. 2018
The London School of Economics and Political Science (LSE) London
- Classes in game theory, financial mathematics, advanced algorithms and statistics
 - Thesis in quasi-stationary distributions applied to epidemics and project in risk measures and banking regulation
- Master of Science in Engineering (“Grande École” diploma)** Sep. 2015 — Aug. 2019
Télécom Paris, in Institut Polytechnique de Paris Paris
- Major in statistics and financial mathematics. Minor in information theory and quantum computing
 - Electives in law, economics, and social sciences; exchange courses at AgroParisTech and TU Delft
- Bachelor in advanced mathematics and physics (“prépa” MPSI and MP*)** Sep. 2012 — June 2015
Lycée Clemenceau Nantes

Work experience

- Post-doctoral researcher** June — Sep. 2025
University of Geneva and University of Zurich Zurich
- Financial stability expert** June 2024 — May 2025
European Central Bank, Stress Test Modelling division Frankfurt am Main
- Research fellow** Apr. 2023 — Mar. 2024
Ca’ Foscari University of Venice Venice
- Staff member for internal evaluation** Sep. 2020 — Dec. 2022
GrEnFin Erasmus+/Knowledge Alliance project Vienna
- Research fellow** Sep. 2020 — Aug. 2021
European Central Bank, DG Macroeconomic Policy and Financial Stability Frankfurt am Main
- Research analyst** Sep. 2019 — Aug. 2020
European Central Bank, Stress Test Modelling division Frankfurt am Main
- Graduate trainee in financial stability** Sep. 2018 — Aug. 2019
European Central Bank, Stress Test Modelling division Frankfurt am Main
- Computer science and cryptography engineer** May 2017 — Apr. 2018
IXXO (prev. Rockchain; part-time) Remote
- Tutor in mathematics, physics and computer science at undergraduate-level** Sep. 2015 — June 2017
Groupe Réussite Paris

Technical skills

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| Programming | Python (incl. pandas, polars, statsmodels), R, Julia, Matlab, Go, C/C++, SQL |
| Productivity and editing | Git, \LaTeX , MS Suite, G Suite, Quarto, HTML5, CSS3 |
| Data tools | Bloomberg, Eikon, Lipper, Anacredit, SHS, CSDB, WRDS, Orbis |

Publications

Journal publications

- [1] R. Gourdel, I. Monasterolo, and K. Gallagher, “Climate transition spillovers and sovereign risk: Evidence from Indonesia,” *Energy Economics*, p. 108 211, 2025, ISSN: 0140-9883. DOI: [10.1016/j.eneco.2025.108211](https://doi.org/10.1016/j.eneco.2025.108211).
- [2] R. Gourdel, I. Monasterolo, N. Dunz, A. Mazzocchetti, and L. Parisi, “The double materiality of climate physical and transition risks in the euro area,” *Journal of Financial Stability*, vol. 71, p. 101 233, 2024. DOI: [10.1016/j.jfs.2024.101233](https://doi.org/10.1016/j.jfs.2024.101233).
- [3] M. Sydow, A. Schilte, G. Covi, *et al.*, “Shock amplification in an interconnected financial system of banks and investment funds,” *Journal of Financial Stability*, vol. 71, p. 101 234, 2024, ISSN: 1572-3089. DOI: [10.1016/j.jfs.2024.101234](https://doi.org/10.1016/j.jfs.2024.101234).
- [4] R. Gourdel and M. Sydow, “Non-banks contagion and the uneven mitigation of climate risk,” *International Review of Financial Analysis*, vol. 89, p. 102 739, 2023, ISSN: 1057-5219. DOI: [10.1016/j.irfa.2023.102739](https://doi.org/10.1016/j.irfa.2023.102739).
- [5] I. Monasterolo, N. Dunz, A. Mazzocchetti, and R. Gourdel, “Derisking the low-carbon transition: investors’ reaction to climate policies, decarbonization and distributive effects,” *Review of Evolutionary Political Economy*, vol. 3, no. 1, pp. 31–71, 2022. DOI: [10.1007/s43253-021-00062-3](https://doi.org/10.1007/s43253-021-00062-3).

Working papers

- [6] R. Gourdel, “Credit and climate sentiments: the decarbonization frontier of risk pricing,” Available at SSRN 5040367, 2024. URL: <https://ssrn.com/abstract=5040367>.
- [7] R. Gourdel and I. Monasterolo, “Climate Physical Risk, Transition Spillovers and Fiscal Stability: an application to Barbados,” Task Force on Climate, Development and the IMF, Working Paper, 2022. URL: <https://www.bu.edu/gdp/2022/10/05/climate-physical-risk-transition-spillovers-and-fiscal-stability-an-application-to-barbados/>.
- [8] R. Gourdel, E. Maqui, and M. Sydow, “Investment funds under stress,” European Central Bank, ECB Working Paper 2323, 2019. DOI: [10.2866/990022](https://doi.org/10.2866/990022).

Policy reports and other publications

- [9] The European Supervisory Authorities and the European Central Bank, “Fit-for-55 climate scenario analysis,” 2024. URL: https://www.ecb.europa.eu/pub/pdf/other/ecb_report_fit-for-55_stress_test_exercise~7fec18f3a8.en.pdf.
- [10] R. R. Bhandary, R. Gourdel, X. He, L. Merling, and I. Monasterolo, “Addressing cross-border spillover risks of climate transition policies: the role of the G20 and IMF,” G20 and T20 India 2023, T20 Policy Brief, 2023. URL: <https://t20ind.org/research/addressing-cross-border-spillover-risks-of-climate-transition-policies/>.
- [11] R. Gourdel, “Fake it till you green it: climate risk, commitments and regulation for non-banks,” *Climate Policy and Green Finance (Quarterly Update)*, vol. 4, 2023. URL: <https://mgflab.nsd.pku.edu.cn/en/InsightsUpdates/MGFInsights/d9c68f10b5384dc297fad221e2a12bff.htm>.
- [12] Task Force on Climate, Development and the IMF, “The International Monetary Fund, Climate Change and Development: A Preliminary Assessment,” 2023. URL: <https://www.bu.edu/gdp/2023/03/24/the-international-monetary-fund-climate-and-development-a-preliminary-assessment/>.
- [13] K. Cera, M. Giuzio, R. Gourdel, A. Grassi, S. Kördel, and J. Metzler, “The role of bank and non-bank interconnections in amplifying recent financial contagion,” in *Financial Stability Review*, European Central Bank, May 2020. URL: https://www.ecb.europa.eu/pub/financial-stability/fsr/focus/2020/html/ecb.fsrbox202005_06~5321e041b0.en.html.

Teaching and supervision

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| 2022 | GrEnFin summer school lecture: "Climate economics and asset valuation changes" |
| 2023 | Bachelor thesis supervision: "The Iberian Price Cap. Curse or blessing?" |
| 2025 | Bachelor thesis supervision: "Carbon Leakage in the EU ETS: Assessing Policy Effectiveness in the Iron and Steel Industry" |

Languages

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| <i>English</i> | Fluent | <i>German</i> | Advanced (B2) | <i>Mandarin</i> | Beginner (A1) |
| <i>French</i> | Fluent (native) | <i>Spanish</i> | Advanced (B2) | | |

Leadership experience and volunteering

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| Co-founder and trainer <i>Young Professional Debaters of ECB</i> | 2018 - 2019 Frankfurt am Main |
| Board member, tournament convenor, and webmaster <i>United Debaters of Paris</i> | 2016 - 2019 Paris |
| Board member and student representative in Paris-Saclay University <i>Student Union of Télécom Paris (BDE)</i> <ul style="list-style-type: none">Responsible for university ski trip, international students, and alcohol prevention | 2016 - 2017 Paris |
| Treasurer of the residents committee <i>Hall of South-East Asia, in the International University Campus</i> | 2015 - 2017 Paris |
| Volunteer mentor for deserving high school students <i>Cordées AgroParisTech, a social mobility initiative for disadvantaged areas</i> | 2015 - 2016 Paris |
| Volunteer tutor in mathematics, physics and computer science <i>Lycée Clemenceau, conducting an initiative for scholarship students</i> | 2014 - 2015 Nantes |

Referee experience

- International Review of Financial Analysis
- Nature
- Energy Economics
- Journal of Globalization and Development
- Economic Modelling
- Journal of Climate Finance
- Journal of Sustainable Finance and Investment
- Finance (of the French Finance Association)
- Energy reports
- Ecological Economics
- Applied Economics Letters
- North American Journal of Economics and Finance
- Financial Innovation
- Climate Policy
- Environment Systems and Decisions
- Prosperitas

Conferences and external presentations

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| 26.04.2019 | <i>Investment funds under stress.</i> Banque de France, Paris |
| 26.08.2019 | <i>Investment funds under stress.</i> Comisión Nacional del Mercado de Valores, Madrid |
| 16.12.2019 | <i>Investment funds under stress.</i> Paris Financial Management Conference |
| 03.09.2021 | <i>Assessing the double materiality of climate risks: a dynamic climate stress test of the EU economy and banking sector.</i> 33rd annual EAEPE conference |
| 16.09.2021 | <i>Non-banks contagion and the uneven mitigation of climate risk.</i> "Steering Financial Markets in the Sustainable Transition", conference by Sustainable Macro. |
| 20.10.2021 | <i>Bi-layer stress contagion across investment funds: a climate application.</i> ECB Climate Change Centre seminar series |

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| 02.12.2021 | <i>Assessing the double materiality of climate risks in the euro area economy and banking sector.</i> GrEnFin workshop “Recent results in green finance” |
| 01.04.2022 | <i>Non-banks contagion and the uneven mitigation of climate risk.</i> Environmental Finance for the Common Good — Birkbeck University. |
| 15.06.2022 | <i>The double materiality of climate physical and transition risks in the euro area.</i> 14th ESEE Conference — Pisa |
| 08.09.2022 | <i>Climate transition spillovers and sovereign risk: evidence from Indonesia.</i> 34th annual EAEPE conference — Naples |
| 06.10.2022 | <i>Non-banks contagion and the uneven mitigation of climate risk.</i> Sustainable and Socially Responsible Finance Conference — 🏆 Recipient of the best paper award. |
| 18.12.2022 | <i>Bayesian augmentation for financial network: climate stress tests and dynamic portfolios.</i> International Conference on Computational and Financial Econometrics — London |
| 27.01.2023 | <i>Non-banks contagion and the uneven mitigation of climate risk.</i> Bank of Canada webinar |
| 04.05.2023 | <i>Climate transition spillovers and sovereign risk: evidence from Indonesia.</i> SEEDS 2023 workshop |
| 25.05.2023 | <i>Climate transition spillovers and sovereign risk: Evidence from Indonesia.</i> 9th International Symposium on Environment and Energy Finance Issues (ISEFI-2023) — Paris |
| 14.07.2023 | <i>Climate physical risk, transition spillovers, and fiscal stability: an application to Barbados.</i> 5th JRC Summer School on Sustainable Finance — Ispra |
| 14.09.2023 | <i>Climate physical risk, transition spillovers, and fiscal stability: an application to Barbados.</i> EAEPE 2023 Annual Conference |
| 16.10.2023 | <i>Climate transition spillovers and sovereign risk: evidence from Indonesia.</i> Cross-border climate change impacts and systemic risks in Europe and beyond |
| 19.06.2024 | <i>Climate sentiments in action: a theory of credit shifts.</i> 2nd European Sustainable Finance PhD Workshop — University of Augsburg |
| 02.09.2024 | <i>Climate sentiments in action: a theory of credit shifts.</i> Annual Meeting of the Austrian Economic Association “Transition to a low carbon economy” — BOKU University |
| 21.11.2024 | <i>Credit and climate sentiments: the decarbonization frontier of risk pricing.</i> 2024 International Symposium on Climate, Finance, and Sustainability (ISCFS-2024) — Université Dauphine, Paris |
| 14.01.2025 | <i>Credit and climate sentiments: the decarbonization frontier of risk pricing.</i> 8th Sustainable and Impact Investments International Conference — University College Dublin — 🏆 Recipient of the third-best paper award |
| 16.01.2025 | <i>Credit and climate sentiments: the decarbonization frontier of risk pricing.</i> The Second International Conference on the Climate-Macro-Finance Interface: New Environmental Challenges for Monetary, Fiscal, and Macroprudential Policy — Bayes Business School, London |
| 26.02.2025 | <i>Credit and climate sentiments: the decarbonization frontier of risk pricing.</i> 18th RGS Doctoral Conference 2025 — TU Dortmund |
| 02.04.2025 | <i>Banks and non-banks stressed: liquidity shocks and the mitigating role of insurance companies.</i> ACPR research seminar – Paris |
| 08.05.2025 | <i>Credit and climate sentiments: the decarbonization frontier of risk pricing.</i> ZEW Conference on “Ageing and Sustainable Finance” — Mannheim |
| 09.06.2025 | <i>Credit and climate sentiments: the decarbonization frontier of risk pricing.</i> CINSIC INFINITI conference — Edinburgh |
| 25.06.2025 | <i>Credit and climate sentiments: the decarbonization frontier of risk pricing.</i> C7th Nordic Annual Environmental and Resource Economics (NAERE) Workshop – Copenhagen |

Discussions of academic presentations

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| 16.12.2019 | Discussion of <i>Modeling Flash Crash Behavior in a Stock Market using Multivariate Hawkes Processes</i> by Shi, Broussard and Booth. Paris Financial Management Conference |
| 06.10.2022 | Discussion of <i>Climate Transition Risk: Evidence from Syndicated Loans</i> by Bruno and Lombini. Sustainable and Socially Responsible Finance Conference |
| 26.05.2023 | Discussion of <i>Climate risk, catastrophe bonds and financial instability</i> by Bressan et al.. WU Institute for Statistics and Mathematics – Brownbag seminar |
| 20.06.2024 | Discussion of <i>Do Firm Credit Constraints Impair Climate Policy?</i> by Mengjie Shi. 2nd European Sustainable Finance PhD Workshop (University of Augsburg, 2024) |
| 26.02.2025 | Discussion of <i>The energy-efficiency gap in the residential market: Evidence from the energy crisis in germany</i> by Frederic Grüninger. 18th RGS Doctoral Conference 2025 – TU Dortmund |
| 09.06.2025 | Discussion of <i>Exploring Tail Risk Spillovers: A Dynamic Analysis of AI Stocks, Tokens, and DeFi Assets in a Shifting Financial Landscape</i> by Burcu Kapar. CINSO INFINITI conference — Edinburgh |