

# Régis Gourdel

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## Education

<b>PhD in Economics and Social Sciences</b> <i>Vienna University of Economics and Business (WU), Institute for Ecological Economics</i> <ul style="list-style-type: none"><li>Courses of specialization in Mathematics for Economics and Business</li></ul>	2020 - Present Vienna
<b>Master of Science in Applicable Mathematics</b> <i>The London School of Economics and Political Science (LSE)</i> <ul style="list-style-type: none"><li>Classes in game theory, financial mathematics, advanced algorithms and statistics</li><li>Thesis in quasi-stationary distributions applied to epidemics and project in risk measures and banking regulation</li></ul>	2017 - 2018 London
<b>Master of Science in Engineering ("Grande École" diploma)</b> <i>Télécom Paris, in Institut Polytechnique de Paris</i> <ul style="list-style-type: none"><li>Major in statistics and financial mathematics. Minor in information theory and quantum computing</li><li>Electives in law, economics, and social sciences; exchange courses at AgroParisTech and TU Delft</li></ul>	2015 - 2019 Paris
<b>Bachelor in advanced mathematics and physics ("prépa" MPSI and MP*)</b> <i>Lycée Clemenceau</i>	2012 - 2015 Nantes

## Work experience

<b>Financial stability expert</b> <i>European Central Bank, Stress Test Modelling division</i>	2024 - Present Frankfurt am Main
<b>Research fellow</b> <i>Ca' Foscari University of Venice</i>	2023 - 2024 Venice
<b>Staff member for internal evaluation</b> <i>GrEnFln Erasmus+/Knowledge Alliance project</i>	2020 - 2022 Vienna
<b>Research fellow</b> <i>European Central Bank, DG Macroeconomic Policy and Financial Stability</i>	2020 - 2021 Frankfurt am Main
<b>Research analyst</b> <i>European Central Bank, Stress Test Modelling division</i>	2019 - 2020 Frankfurt am Main
<b>Graduate trainee in financial stability</b> <i>European Central Bank, Stress Test Modelling division</i>	2018 - 2019 Frankfurt am Main
<b>Computer science and cryptography engineer (part-time)</b> <i>IXXO (prev. Rockchain)</i>	2017 - 2018 Remote
<b>Intern in data solutions and cryptography</b> <i>Ownest (prev. Ledgys, French award-winning startup)</i>	2016 Paris
<b>Private tutor in mathematics, physics and computer science</b> <i>Groupe Réussite</i>	2015 - 2017 Paris

## Languages

<b>English</b> Fluent	<b>German</b> Advanced speaker (B2)
<b>French</b> Fluent (native)	<b>Spanish</b> Basics (A2)

## Technical skills

<b>Programming</b>	Python, R, Julia, Matlab, Go, C/C++, SQL
<b>Office and web</b>	LaTeX, MS Suite, G Suite, Quarto, HTML5, CSS3
<b>Data tools</b>	Bloomberg, Eikon, Lipper, EPFR, Eurostat

## Publications and working papers

- ESAs and ECB (2024). *Fit-for-55 climate scenario analysis*.
- Gourdel et al. (2024). *The double materiality of climate physical and transition risks in the euro area*. In Journal of Financial Stability
- Sydow et al. (2024). *Shock amplification in an interconnected financial system of banks and investment funds*. In Journal of Financial Stability
- Task Force on Climate, Development and the IMF (2023). *The International Monetary Fund, Climate Change and Development: A Preliminary Assessment*.
- Gourdel and Sydow (2023). *Non-banks contagion and the uneven mitigation of climate risk*. In International Review of Financial Analysis
- Gourdel (2023). *Fake it till you green it: climate risk, commitments and regulation for non-banks*. In Climate Policy and Green Finance (Quarterly Update)
- Gourdel and Monasterolo (2022). *Climate physical risk, transition spillovers and fiscal stability: an application to Barbados*. Technical paper for the Task Force on Climate, Development, and the IMF
- Gourdel, Monasterolo and Gallagher (2022). *Climate transition spillovers and sovereign risk: evidence from Indonesia*. Technical paper for the Task Force on Climate, Development, and the IMF
- Monasterolo et al. (2022). *Derisking the low-carbon transition: investors' reaction to climate policies, decarbonization and distributive effects*. In Review of Evolutionary Political Economy 3 (1), 31-71
- Cera et al. (2020). *The role of bank and non-bank interconnections in amplifying recent financial contagion*. ECB Financial Stability Review May 2020
- Gourdel, Maqui and Sydow (2019). *Investment funds under stress*. ECB working paper series, No. 2323

## Reviewer activity

International Review of Financial Analysis • Journal of Globalization and Development • Journal of Climate Finance • Applied Economics Letters • Economic Modelling • Financial Innovation • Climate Policy • Prosperitas

## Teaching and supervision

2022 GrEnFIn summer school lecture: "Climate economics and asset valuation changes"

2023 Bachelor thesis supervision: "The Iberian Price Cap. Curse or blessing?"

## Leadership experience and volunteering

Co-founder and trainer <i>Young Professional Debaters of ECB</i>	2018 - 2019 <i>Frankfurt am Main</i>
Board member, tournament convenor, and webmaster <i>United Debaters of Paris</i>	2016 - 2019 <i>Paris</i>
Board member and student representative in Paris-Saclay University <i>Student Union of Télécom Paris (BDE)</i> • Responsible for university ski trip, international students, and alcohol prevention	2016 - 2017 <i>Paris</i>
Treasurer of the residents committee <i>Hall of South-East Asia, in the International University Campus</i>	2015 - 2017 <i>Paris</i>
Volunteer mentor for deserving high school students <i>Cordées AgroParisTech, a social mobility initiative for disadvantaged areas</i>	2015 - 2016 <i>Paris</i>
Volunteer tutor in mathematics, physics and computer science <i>Lycée Clemenceau, conducting an initiative for scholarship students</i>	2014 - 2015 <i>Nantes</i>

## Conferences and external presentations

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
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
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
03.09.2021	<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