Daniele Rinaldo

PERSONAL INFORMATION	**Email**: d.rinaldo@exeter.ac.uk
	Phone Number: +41 (0) 788174811, +44 (0) 7938624004
	Nationality: Italian
	Languages spoken: Italian (native), English, French (fluent), German, Spanish (intermediate)
	Website

CURRENT POSITION

Assistant Professor   2021-currently
Department of Economics and Land, Environment and Economic Policy Institute (LEEP)
University of Exeter Business School, United Kingdom

PREVIOUS POSITIONS

Visiting Scholar, Fellow   2020-2021
Faculty of Economics and Centre for the Study of Existential Risk
University of Cambridge, United Kingdom
Sponsor: *Prof. Partha Dasgupta*
Funded by the Swiss National Science Foundation

Principal Investigator   2018-2020
The Graduate Institute of International and Development Studies, Geneva, Switzerland. Funded by
the Swiss Network for International Studies

EDUCATION

The Graduate Institute of International and Development Studies,   2018
Geneva: PhD in Economics
Thesis title: *Essays in Non-Gaussian Economics*
Supervisor: *Prof. Jean-Louis Arcand*
Awards: - *Summa cum laude avec félicitations* for both thesis and defense
Leonid Hurwicz Prize for the best doctoral thesis

Musik-Akademie Basel: Soloist diploma *mit Auszeichnung*   2014

Royal Academy of Music, London: MA, Piano   2011
Awards: Alfred Knight Prize

University of Padua: MSc in Quantitative Finance   2009

University of Padua: BSc in Mathematics and Economics   2006
Awards: 110/110, *summa cum laude*, special award for the best thesis in applied mathematics

Accademia Nazionale Santa Cecilia, Rome: Postgraduate Diploma, Piano   2006

Conservatorio Nazionale Cesare Pollini, Padua: Diploma, Piano   2002
Awards: 10/10, *summa cum laude*

RESEARCH INTERESTS

Economics of endemic and emerging diseases, with a focus on Sub-Saharan Africa. Natural resource economics, regime shifts and economics of biodiversity. Applications to development and environmental economics of stochastic control methods and mean-field games. Applied probability theory and stochastic analysis, with a focus on nonlinear diffusion processes.

| FUNDED PROJECTS | Principal investigator (together with Prof. Jean-Louis Arcand) | December 2018- August 2020 |

FUNDED PROJECTS   Principal investigator (together with Prof. Jean-Louis Arcand)   December 2018- August 2020
Schistosomiasis, Agriculture and Migration in Africa: a joint Economic and Ecological Approach
Funded by the Swiss Network of International Studies (SNIS). Funds awarded: CHF 250,000

Research associate   December 2018- August 2020
Automated Interpretation of Political and Economic Policy Documents. Machine Learning using semantic and syntactic information
Funded by the Swiss National Science Foundation. Funds awarded: CHF 2,285,000

PUBLICATIONS

- The Economic Impact of Schistosomiasis (2021)
  First author, joint with Jean-Louis Arcand, Javier Perez-Saez and Penelope Vounatsou
  Infectious Diseases of Poverty, Volume 10, Article 134
  https://idpjournal.biomedcentral.com/articles/10.1186/s40249-021-00919-z

- Increasing Risk: Dynamic Mean-Preserving Spreads (2020)
  Joint with Jean-Louis Arcand and Max-Olivier Hongler
  Journal of Mathematical Economics, Volume 86, Pages 69-82
  https://www.sciencedirect.com/science/article/pii/S0304406818301332

WORKING PAPERS

- Can One Hear the Size of a Target Zone? (2022) [Latest Version]
  Joint with Jean-Louis Arcand, Max-Olivier Hongler and Shekhar Hari Kumar
  Revise and resubmit, *Journal of Mathematical Economics*

- Scenes from a Monopoly: Quickest Detection of Ecological Regimes (2022)[Latest Version]
  Joint with Neha Deopa
  submitted for review

- Dams, Snails and Poverty Traps (job market paper, 2021)
  submitted for review

- Health Capital, Economic Growth and the Burden of Disease (2020)
  Joint with Jean-Louis Arcand
  part of *The World Bank Human Capital Project*

- Firm Decisions under Jump-Diffusive Dynamics (2021) [Latest Version]
  Joint with Neha Deopa
  submitted for review

- May the Force Be With You! Mean-Preserving Spreads and the Agency Problem (2018)
  IHEID working paper

- Noise-induced Entry and Exit Decisions driven by Non-Markovian Noise (2016)
  IHEID working paper

TEACHING

University of Exeter

Topics in Empirical Economics   2021-currently
- MRes Course, module leader

The Graduate Institute of International and Development Studies

Stochastic Processes for Economic Modelling   2020
- PhD Course, Lecturer (March-June 2020, moved due to COVID-19)
Introduction to Microeconomics   2017
- Pre-graduate course, lecturer
Econometrics 1   2014-2017

	- Masters course, Teaching Assistant for Prof. Nicolas Berman	
	Macroeconomics 1	2017
	- Masters course, Teaching Assistant for Prof. Cédric Tille	
	Macroeconomics 2	2015-2017
	- Masters course, Teaching Assistant for Prof. Yi Huang	

SEMINARS Conferences and seminars in:
- BIOECON conference (Exeter, 2022)
- MUSEES Conference: Modeling uncertainty in the social, economic and environmental sciences (EM Lyon Business School, 2022)
- EAERE Annual conference (Berlin/virtual, 2021)
- Italian Society of Economics (virtual, 2020)
- ClimRisk 2020, Ca' Foscari University of Venice (virtual, 2020)
- OSWEET Conference, Cornell University (virtual, 2020)
- French Association of Environmental and Resource Economists (virtual, 2020)
- Monash University, Melbourne (virtual, 2020)
- IHEID (2015 - 2020)
- University of Geneva (2019)
- EPFL in Lausanne (2018, 2019)
- ETH in Zürich (2019, 2020)
- ISS in The Hague (2019)
- University of Padua (2017)
- Ca' Foscari University of Venice (2017, 2018).

PROGRAMMING LANGUAGES
Main programming in R, Python and Mathematica.
Subroutines in C++. User of the TensorFlow ecosystem.

OTHER EMPLOYMENT

Active classical concert pianist, performing worldwide. *Website*		2002 - Present
European University Institute		2017-2018
- Research Associate		
Banca Etica (Ethical Bank), Padova		2005-2006
- Risk Analyst		

REFERENCES

Jean-Louis Arcand	Ugo Panizza
Professor of Economics	Professor of Economics
Department of International Economics	Department of International Economics
The Graduate Institute (IHEID), Geneva	The Graduate Institute (IHEID), Geneva
jean-louis.arcand@graduateinstitute.ch	ugo.panizza@graduateinstitute.ch
Didier Sornette	Max-Olivier Hongler
Chair of Enterpreneurial Risks	Professor Emeritus
Department of Management,	Statistical Physics, STI-DO
Technology and Economics (D-MTEC)	École Polytechnique Fédérale de Lausanne (EPFL)
ETH Zürich	max.hongler@epfl.ch
dsornette@ethz.ch	