

Daniele Rinaldo

PERSONAL INFORMATION

Email: daniele.rinaldo@graduateinstitute.ch
Phone Number: +41 (0) 788174811
Nationality: Italian
Languages spoken: Italian (native), English, French (fluent), German, Spanish (intermediate)
[Website](#)

CURRENT POSITION **Visiting Scholar, Fellow**

Department of Economics and Centre for Existential Risk
University of Cambridge, United Kingdom
Sponsor: [Prof. Partha Dasgupta](#)
Funded by the Swiss National Science Foundation

PREVIOUS POSITION **Principal Investigator, Research Associate**

December 2018 - August 2020

The Graduate Institute of International and Development Studies, Geneva

EDUCATION

The Graduate Institute of International and Development Studies, 2018

Geneva: PhD in Economics, *summa cum laude avec félicitations* for both thesis and defense

Thesis title: *Essays on Non-Gaussian Economics*

Supervisor: [Prof. Jean-Louis Arcand](#)

Awards: Leonid Hurwicz Prize for the best doctoral thesis

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

Royal Academy of Music, London: MA in Piano Performance (with Knight Prize) 2011

University of Padua: MSc in Quantitative Finance 2009

University of Padua: BSc in Economics (Mathematical Economics path) 2006

Awards: *Summa cum laude* for the best thesis in applied mathematics

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

Conservatorio Nazionale "C.Pollini", Padua: Diploma in Piano Performance 2002

Awards: *Summa cum laude*

RESEARCH INTERESTS

Modeling and estimation of the economic impact of endemic diseases, with a focus on Sub-Saharan Africa. Current research topics: malaria, schistosomiasis and cholera

Applications to Development, Environmental and Resource Economics of:

- Stochastic analysis and control
- Filtering techniques and inference on nonlinear systems
- Inference with machine learning techniques
- Mean-field games

Contract theory, with a focus on continuous-time contracts and connections with optimal transportation theory. Applications to agricultural contracts in developing countries.

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.

PUBLICATIONS

- 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

- Dams, Snails and Poverty Traps (job market paper, 2020)
- Can One Hear the Size of a Target Zone? (2020) [Latest Version]
Joint with Jean-Louis Arcand, Max-Olivier Hongler and Shekhar Hari Kumar
In resubmission, *Journal of Economic Theory*
- The Economic Impact of Schistosomiasis (2020)
First author, joint with Jean-Louis Arcand, Javier Perez-Saez and Penelope Vounatsou
submitted for review
- Scenes from a Monopoly: Quickest Detection of Ecological Regimes (2020)[Latest Version]
Joint with Neha Deopa
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 (2019) [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

The Graduate Institute of International and Development Studies 2014 - 2020
Geneva, Switzerland
Stochastic Processes for Economic Modelling 2020
- PhD Course, Lecturer (March-May 2020, moved due to COVID-19)
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	<p>Conferences and seminars in:</p> <ul style="list-style-type: none"> - 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 (2018). 	
PROGRAMMING LANGUAGES	<p>Main programming in R, Python and Mathematica. Subroutines in C++</p>	
OTHER EMPLOYMENT	<p>Active classical concert pianist, performing worldwide.</p> <p>European University Institute - Research Associate</p> <p><i>Banca Etica</i> (Ethical Bank), Padova - Risk Analyst</p>	<p>2002 - Present</p> <p>2018-2019</p> <p>2005-2006</p>
REFERENCES	<p>Jean-Louis Arcand Professor of Economics Department of International Economics The Graduate Institute (IHEID), Geneva jean-louis.arcand@graduateinstitute.ch</p> <p>Didier Sornette Chair of Entrepreneurial Risks Department of Management, Technology and Economics (D-MTEC) ETH Zürich dsornette@ethz.ch</p>	<p>Ugo Panizza Professor of Economics Department of International Economics The Graduate Institute (IHEID), Geneva ugo.panizza@graduateinstitute.ch</p> <p>Max-Olivier Hongler Professor Emeritus Statistical Physics, STI-DO École Polytechnique Fédérale de Lausanne (EPFL) max.hongler@epfl.ch</p>