

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**

Department of Economics and Centre for Existential Risk
University of Cambridge, United Kingdom

PREVIOUS POSITION **Postdoctoral research fellow**

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*

Supervisors: [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 Mathematical 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: malaria, schistosomiasis and cholera

Applications to Development, Health and Environmental Economics of:

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

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 Fund (SNF).

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>
- 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*

WORKING PAPERS

- The Economic Impact of Schistosomiasis (2020)
Joint with Jean-Louis Arcand, Javier Perez-Saez and Penelope Vounatsou
 submitted for review
- Health Capital, Economic Growth and the Burden of Disease (2020)
Joint with Jean-Louis Arcand
 working paper, part of *The World Bank Human Capital Project*
- Firm Decisions under Jump-Diffusive Dynamics (2019) [Latest Version]
Joint with Neha Deopa
 submitted for review
- Scenes from a Monopoly: Renewable Resources and Quickest Detection of Regime Shifts (2019)
Joint with Neha Deopa (IHEID)
 IHEID working paper
- 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
<i>Geneva, Switzerland</i>	
Stochastic Processes for Economic Modelling	2020
- PhD 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:

- 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)
- ISS in The Hague (2019)
- University of Padua (2017)
- University of Venice (2018).

PROGRAMMING LANGUAGES

Main programming in R, Python and Mathematica.
Subroutines in C++

OTHER EMPLOYMENT

Active classical concert pianist, performing worldwide.

2002 - Present

European University Institute
- Research Associate

2018-2019

Banca Etica (Ethical Bank), Padova
- Risk Analyst

2005-2006

REFERENCES

Jean-Louis Arcand
Professor of Economics
Department of International Economics
The Graduate Institute (IHEID), Geneva
jean-louis.arcand@graduateinstitute.ch

Ugo Panizza
Professor of Economics
Department of International Economics
The Graduate Institute (IHEID), Geneva
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Didier Sornette
Chair of Entrepreneurial Risks
Department of Management,
Technology and Economics (D-MTEC)
ETH Zürich
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Max-Olivier Hongler
Professor Emeritus
Statistical Physics, STI-DO
École Polytechnique Fédérale de Lausanne (EPFL)
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