

AYMERIC VIÉ

aymeric.vie@maths.ox.ac.uk

Born April 14, 1997

EDUCATION

University of Oxford DPhil in Mathematics - CDT Mathematics of Random Systems	<i>2020 - ...</i>
Paris School of Economics , Paris, France Master's program - "Analysis and Policy in Economics" (APE)	<i>2018 - 2020</i>
University of Milan , Italy Master's program - "Economics and Political Sciences", with first class honors, 27/30 GPA	<i>2016 - 2017</i>
Sciences Po , Saint-Germain-en-Laye, France Bachelor degree of Political Studies Institute (IEP). Sciences Po degree (master) in Economics. First class honors, 16/20 GPA	<i>2014 - 2019</i>
University Paris 1 Panthéon-Sorbonne , France Bachelor degree in Law	<i>2014 - 2017</i>
French Scientific Baccalaureate With honors, 18.11/20 GPA	<i>2014</i>

COMPLEMENTARY CERTIFIED EDUCATION

Harvard University , Cambridge, MA, USA Data Science in R (2017)	<i>Online</i>
Massachusetts Institute of Technology , Cambridge, MA, USA Computer Science and Programming using Python (in progress), Computational Thinking and Data Science (in progress)	<i>Online</i>
Santa Fe Institute , Santa Fe, NM, USA Agent-based modelling (2017), Complexity Science (2017), Dynamical systems and chaos (2017), Fractals and Scaling (2017), Non-linear dynamics (2017)	<i>Online</i>

RESEARCH INTERESTS

Network theory, economic impact and properties of network topology

Evolutionary and dynamical processes in finance

Mathematical modelling in economic and historical phenomena

RESEARCH EXPERIENCE

- Paris Complex Systems Institute** (ISCPiF), France 2019
Research internship (6 months) under the supervision of David Chavalarias (ISCPiF, CNRS, EHESS) and Alan Kirman (EHESS, OECD)
Computational economics, evolutionary & dynamic processes of information selection in finance
- New England Complex Systems Institute**, Cambridge, MA, USA 2018 - 2020
Research fellow, in collaboration with Alfredo J. Morales (MIT)
Network theory, financial networks productivity and systemic risk.
- University of Cergy-Pontoise**, France 2018
Research internship (6 months) under the supervision of Prof. Paul Maarek (CNRS, Uni. Paris 2)
Econometrics and political economy
- University of Milan**, Italy 2016 - ...
Research Assistant (3 years) under the supervision of Prof. Davide La Torre (Uni. Milan, SKEMA), and in collaboration with Danilo Liuzzi (Uni. Cagliari), Prof. Cinzia Colapinto (Uni. Venice)
Multi-criteria linear programming, fuzzy optimization. Optimal growth models of sustainability and environmental policy.

PUBLICATIONS

- How connected is too connected? Impact of network connectivity on systemic risk and collapse of economic systems** 2020
With Alfredo Morales. Forthcoming in (*Computational Economics*).
- Deglobalization in a hyperconnected world** 2020
With Manuel Cebrian, José Balsa-Barreiro, Alfredo Morales.
Nature - Palgrave Communications 6 (1), 1-4.
- Information Selection Efficiency in Networks: a Neurocognitive-founded Agent-based Model** 2019
Network Theory and Agent-Based Modeling in Economics and Finance, Springer, 11-34
- Towards the Realization of the Europe 2020 Agenda for Economic Growth in the European Union: An Empirical Analysis based on Goal Programming** 2019
With Davide La Torre, Danilo Liuzzi and Cinzia Colapinto
Mathematical Modelling in Health, Social and Applied Sciences, Springer, 199-239
- The long-run sustainability of the European Union countries: Assessing the Europe 2020 strategy through a fuzzy goal programming model** 2019
With Davide La Torre, Danilo Liuzzi, Cinzia Colapinto
Management Decision Vol. 57 (2), pp.523-542.
- Selecting Information in Financial Markets: Herding and Opinion Swings in a Heterogeneous Mimetic Rational Agent-Based Model** 2018
Unifying Themes in Complex Systems IX: *Proceedings of the Ninth International Conference on Complex Systems*, Springer, 120-128

SUBMISSIONS

- Cooperation and Mobility of Workers Intra and Extra European Countries. A Two-Stage Goal Programming Model** 2019
With Danilo Liuzzi and Veronica Lupi (Uni. Milan). In revision (*Annals of Operations Research*).
- Staring at the Abyss. A Neurocognitive founded Agent-based Model of Collective Risk Social Dilemma under the Threat of Environmental Disaster** 2019
With Danilo Liuzzi. Under review (*Journal of Economic Interaction and Coordination*).
- Evolutionary Strategies with Analogy Partitions in p-guessing games** 2019
Under review (*Computational Economics*)
- A Genetic Algorithm Approach to Asymmetrical Blotto Games with Heterogeneous Valuations** Under review (*Evolutionary Coputation*)

CURRENT PROJECTS

- Metamimetic Dynamics and Collective Choice Efficiency**
With David Chavalarias.

ACADEMIC ACTIVITIES

Conferences presentations

- Northeast Regional Conference on Complex Systems 2020, New York USA (*co-author*) 2020
- STIMUL Futur ICT 2.0 meeting, Brasov, Romania (*co-author*) 2019
- EAYE Workshop on Social Networks, Paris School of Economics, Paris, France -
- Workshop on Economics of Heterogeneous Interacting Agents (WEHIA), London, UK -
- International Conference on Organization and Management, Abu Dhabi, UAE (*co-author*) -
- International Conference on Complex Systems (ICCS), Cambridge, USA 2018
- ICCS Pre-conference and programming workshop, MIT, Cambridge, USA -
- Computing in Economics and Finance, Catholic University of Milan, Milan, Italy -
- Transversal problems in Complexity, University of Cergy Pontoise, France -
- Department Seminar in Economics, University of Cergy Pontoise, France -
- International Symposium in Computational Economics and Finance, Paris, France -
- Multi-Objective Programming and Goal Programming (MOPGP), Metz, France 2017

Referee

- RAIRO - Operations Research (5) 2018 -

Memberships

- Society for Computational Economics 2018 - ...

SKILLS

- Programming** R, Python, Netlogo \LaTeX
- Languages** French (native), English (fluent, TOEFL 112/120)