Davide Samuele Luzzati

Personal Information

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Scholar:	https://scholar.google.com/citations?user=pRW8sOEAAAAJ&hl=en

Education

PhD Economics   09/2020-2024 (expected)
Sant'Anna School of Advanced Studies, Pisa, Italy
Visits: Complexity Science Hub, Wien, Austria (03-08/2023)
Supervisor: Giorgio Fagiolo

MSc Statistics   09/2018-09/2020
ETH Zurich, Zurich, Switzerland
Focus: *Computational Statistics, Machine Learning, Complex Networks*
Thesis: "Endogenous Liquidity Crises in DSGE Models" under the supervision of
J.-P. Bouchaud at the CFM-X Chair of Econophysics and Complex Systems, Paris,
France

BSc Mathematics and Economics   09/2015-06/2018
University of Leeds, Leeds, UK
Focus: *Dynamical Systems, Computational Statistics, Macro-finance*

Industry and Research Experience

World Bank   2024
STC Consultant

OECD, NAEC Division   2020-2021
Consultant

Dept. of Physics, Weizmann Institute, Israel   03-08/2020
Research fellow at the Ant Collective Behaviour lab under Prof. Feinerman.

LadHyX, Ecole Polytechnique of Paris, France   06-08/2018
Research Intern

School of Sociology, University of Leeds, UK   06-08/2017
QStep Research Fellow

Publications

Journal Articles

Fagiolo, G. and Luzzati, D.(2023). Centrality in the Macroeconomic Multi-Network Explains the Spatio-Temporal Evolution of Country Per-Capita Income. *Applied Network Science, 59*(8)

Moran, J., Fosset, A., Luzzati, D., Bouchaud, J.-P. and Benzaquen, M., (2020). *By Force of Habit: Self-Trapping in a Dynamical Utility Landscape Chaos: An Interdisciplinary Journal of Nonlinear Science, 30*(5)

Spaiser, V., Luzzati, D., Gregoriou, A. (2018). Advancing sustainability: Using smartphones to study environmental behavior in a field-experimental setup. *Data Science: Methods, Infrastructure, and Applications, 2*(1)

Chapters

Coronese, M. and Luzzati, D. (2022). Economic impacts of natural hazards and complexity science: a critical review. To appear in *Handbook of Complexity Economics. London, New York: Routledge*

Hynes, W., Kirman, A., Latini, C. and Luzzati, D. (2022). A Systemic Approach to Economic Resilience. *The Routledge Handbook of Comparative Economic Systems*

Work in Progress

On the evolution of global value chain positioning and economic growth: A long-run perspective from world input-output tables with Giorgio Fagiolo (Sant'Anna) and Sebastiano Michele Zema (Sant'Anna)

Propagation of shocks in reconstructed firm-to-firm networks from Input-Output tables: a maximum entropy approach with Giorgio Fagiolo (Sant'Anna), Leonardo Ialongo (IMT Lucca) and Diego Garlaschelli (IMT Lucca and Leiden University)

Temporal Production Networks with Andras Borsos (Central Bank of Hungary and Complexity Science Hub) and Anton Pichler (Complexity Science Hub)

Teaching

Statistics and Statistical Epidemiology   2022-2023
University of Salerno, Salerno, Italy

Input-output structure as networks   09/2022
PhD Course at Sant'Anna School of Advanced Studies, Pisa, Italy

Grants

INET Young Scholar Event Grants x 3 (total 10.000 $)

Extended Problem Solving Workshop supported by The Fields Institute for Research in Mathematical Sciences, NAEC-OECD and the Canadian Securities Transition Office. Theme: *COVID and Global Capital Flows* (1500 CAD $)

Refereeing Activity

npj Urban Sustainability, Advances in Complex Systems, Nature Scientific Reports, Physica A, Journal of Economic Interaction and Coordination

Conferences and Seminars

CES Seminar Sorbonne, Paris (2024); ENF Workshop, Lucca (2024); Computing in Economics and Finance (2023); NetSci (2023); Complexity Science Hub, Wien (2023); Complex Networks and their applications (2022); Chair of Econophysics and Complex Systems (2020); Sant'Anna School of Advanced Studies, Pisa (2022); OECD (2020)

Software Skills

Python: ADVANCED
R: ADVANCED
Mathematica: INTERMEDIATE
MATLAB: INTERMEDIATE
Stata: BASIC

Languages

Italian: Proficient
English: Proficient
French: Intermediate
Hebrew: Intermediate

References

Available upon request.