Carlo Lucibello

CURRICULUM VITAE (UPDATE MAY 2024)

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Jobs and Education

9/2018-present	Assistant Professor, Bocconi University.
2/2018-8/2018	Visiting Researcher, Microsoft Research New England.
12/2016-8/2018	Research fellow (RTDA), Politecnico di Torino.
2/2015-12/2016	PostDoc in Riccardo Zecchina's lab, Politecnico di Torino.
29/1/2015	Ph.D. degree, Physics, *"La Sapienza"*, University of Rome.
	Advisors: Giorgio Parisi and Federico Ricci-Tersenghi.
	Thesis: "Finite Size Corrections to Disordered Systems".
27/10/2011	Laurea Magistrale *cum laude*, Physics, *"La Sapienza"*, University of Rome.
	Thesis: "Matching And Assignment On Random Hypergraphs".

I am a researcher in statistical physics and machine learning. My everyday work involves modeling and theoretical analysis, numerical programming and data analysis.

Teaching

University Courses

- 2021-present: Modern Applied Machine Learning, PhD course, Bocconi University.
- 2021-present: Foundamentals of Computer Science, B.Sc. course, Bocconi University.
- 2021-present: Mathematical Modelling in Machine Learning, B.Sc. course, Bocconi University.
- 2018-2021: Computer Programming, B.Sc. course, Bocconi University.
- 2018-2021: Computer Programming and Database Systems, M.Sc. course, Bocconi University.
- 2017-2021: Principles of Deep Learning, PhD course, Politecnico di Torino.
- 2018-19: lecturer, Topics in computer science and optimization, PhD course, Bocconi University.
- 2016-18: tutor, Physics I & II, Politecnico di Torino.
- 2016-17: teaching assistant, Computer Science, Bocconi University.
- 2015-16: lecturer, Statistical Physics, Politecnico di Torino.

Student Supervision

I supervised the thesis projects of ~ 30 M.Sc. in Data Science students and 1 M.Sc. in Physics student. I'm currently co-advising 3 PhD students in "Statistics and Computer Science" at Bocconi university.

Research Activity

Most of my scientific contributions lie at the interface of statistical physics, optimization, and machine leaning. They can be loosely grouped in a few different topics: Landscape and Algorithms for Neural Networks; Inference and Signal Processing; Loopy Graphical Models; Matching Problems; Physics Informed Machine Learning

Publications and Talks

I have authored 30 papers published in international peer-reviewed journals in physics and machine learning, as well as in the proceedings of international conferences. I regularly present at internationally recognized workshops and conferences.

Grants

I'm the recipient as a co-PI of a PRIN-2022 and a PRIN-PNRR2022 grant.