Curriculum vitae

PERSONAL INFORMATION   Luciano Ortenzi, PhD (iD)

PRESENT POSITION

March 2025 – Present   **Postdoctoral Fellow**
Sapienza Università di Roma
Department of Computer Science
Interdisciplinary resarch on Applied Informatics and Environmental Sciences

WORK EXPERIENCE

November 2022 – February 2025   **Senior Assistant Professor**
Università degli Studi della Tuscia
Department of Agricultural and Forest Sciences (DAFNE)
I worked on machine learning and AI applications for Plants early disease detection and automatic animal tracking

November 2019 – October 2022   **Scientist**
CREA-IT, Agricultural Research Council
Research Centre for Engineering and Agro-Food Processing
I worked on machine learning and AI applications for the Agri-food sector and precision Forestry.

December 2013 – October 2018   **Postdoctoral fellow**
Institute for Complex Systems (ISC) - Italian National Research Council (CNR)
Via dei Taurini 19, 00185 Rome (Italy)
Research on pnictide and hydride superconductors and on transition metal dichalcogenides (TMD) semiconductors

July 5, 2016 – June 30, 2018   **Visiting scientist**
RIKEN Center for Emergent Matter Science (CEMS)
2-1 Hirosawa, Wako, Saitama 351-0198 (Japan)
Research on effective tight-binding model for the description of H high T_c superconductors

17/10/2013 – 30/11/2013   **Postdoctoral Fellow**
Max Planck Institute for Solid State research)
Eisenebergstr. 1, 00190 Stuttgart (Germany)
Research on structural and magnetic transitions in Ca_2Fe_2.

2022-2025   ## Senior Assistant Professor

Information Systems
Graduate course for the Master in DIGITAL MANAGEMENT OF AGRICULTURE AND MOUN-TAN ENVIRONMENT -GEDAM- (LM-69/73)

Tuscia University

AA 2023-2025   ## Senior Assistant Professor

Mathematics
undergraduate course for the Bachelor in MOUNTAIN SCIENCES (LM 25)

Tuscia University

AA 2022-2023   ## Senior Assistant Professor

Interaction and Usability of Digital Systems
Graduate course for the Master in DIGITAL information (LM-91)

Tuscia University

October 2022 - 26 July 2023:   ## Master thesis Co-Supervisor

Student: Valerio Capparella
Supervisor: Dario Benedetto from Sapienza University of Rome (final mark 107/110).

AA 2017/2018   ## Teaching assistant

Classical mechanics
Undergraduate course for the Bachelor in Physics

"Sapienza" University of Rome

AA 2016/2017   ## Teaching assistant

Classical mechanics
Undergraduate course for the Bachelor in Physics

"Sapienza" University of Rome

AA 2015/2016   ## Teaching assistant

Classical mechanics
Undergraduate course for the Bachelor in Physics

"Sapienza" University of Rome)

AA 2015/2016   ## External Tutor

"Alternanza-scuola lavoro"
Istituto dei Sistemi Complessi (ISC) - Italian National Research Council (CNR)

joint activity with "Liceo Statale Plinio seniore" involving 260 high-school students.

AA 2015/2016   ## Master Thesis Supervisor

Master in Physics
Title of the thesis:

"Electron-phonon coupling in H-based superconductor from a tight-binding perspective" (final mark 110/110) "Sapienza" Università di Roma

AA 2011/2012   ## Tutor

"Advanced Physical Laboratory course"
International Master of Science in Physics at the

University of Stuttgart.

RESEARCH ACTIVITY

2009– present — **Condensed Matter Physics and Green-AI (AI for agrifood, marine sciences and forestry)**

WP leader within the PESCA-CHAIN project (budget 160k euro)
PI in a research contract with Parco Naturale Regionale dei monti Lucretili (budget 7k euro)

participation in national (INFOLIVA, DEAOLIVA, REACH, SERINNOVATION, ASFRUM, IN-NOLITEC, INNOVALAT, AGRIDIGIT, AGRITECH, Di.Ver.So)
and international (REACH, EXCALIBUR, PLOME, ARIM, DIGI4ECO) research projects.

EDUCATION AND TRAINING

November 2009 – October 17, 2013 — **PhD in Physics of Matter (FIS02/B2)**

Max Planck Institute for Solid State research and University of Stuttgart
Thesis: "Phenomenological approach to spin fluctuations in itinerant magnets and superconductors from *ab-initio* calculations"

Supervisors: Dr. Lilia Boeri e Prof. Dr. Ole Krogh Andersen.

October 2000 – July 17, 2009 — **Master of Science in Physics (110/110)**

"Sapienza" Universita' di Roma (Italy)
Thesis: "Band Shift, Particle-Hole Asymmetry and Multi-Band Effects in the new Fe-based Superconductors"

Supervisors: Dr. Emmanuele Cappelluti, Prof. Luciano Pietronero.

September 1995 – July 14, 2000 — **Diploma di Maturità (84/100)**

Liceo Scientifico Statale di Monterotondo "G. Peano" (Italy)

CERTIFICATES

March 9, 2021 — **Convolutional Neural Networks**

by Coursera

Grade:100/100
License number: 2K9Z6Q4HK7XL
Certification URL: https://www.coursera.org/account/accomplishments/certificate/2K9Z6Q4HK7XL

November 3, 2020 — **Structuring Machine Learning Projects**

by Coursera

Grade:100/100
License number: TP4XXD46QTRK
Certification URL: https://www.coursera.org/account/accomplishments/certificate/TP4XXD46QTRK

October 12, 2020 — **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization**

by Coursera

Grade:100/100
License number: 26KEDT5TXNEM
Certification URL: https://www.coursera.org/account/accomplishments/certificate/26KEDT5TXNEM

| May 25,27,28, 2020 | **STATISTICA - Basi di analisi della varianza** |
| | by CREA-IT |

May 4, 2020	**Neural Networks and Deep Learning Course**
	by Coursera
	Grade:100/100
	License number: MWDLVMLRMU3G
	Certification URL: https://www.coursera.org/account/accomplishments/certificate/MWDLVMLRMU3G

| June 18, 2019 | **Regional license** |
| | To use agricultural machines |

January 17, 2019	**Regional license**
	To purchase and use plant protection products
	valid for 5 years

| January 11, 2019 | **24 CFU for teaching at the high schools** |

March 26, 2018	**Machine Learning Course**
	by Coursera
	Grade:100/100
	License number: WFVL33L76TD3
	Certification URL: https://www.coursera.org/account/accomplishments/verify/WFVL33L76TD3

| December 19, 1999 | **Full clean driving license** |

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C2	C1	C2
German	B1	B1	B1	B1	B1
French	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

Computer skills

Operative systems: Windows, Mac, Linux
Basic tools: Microsoft Office, LaTeX, Gnuplot, Xmgrace, Vim
Programming: C, Bash, Fortran, Python, Mathematica, Matlab
Expertise: Data mining, Data analysis and visualization

ADDITIONAL INFORMATION

Marital status Married (Father of 4 children)

Honours and awards	**Topic Editor of Sensors-MDPI (IF 3.275)**
	"(EPL)-(EPS) Prize for the best oral contribution" (plus cash prize) for the work "Band structure and electron-phonon coupling in H_3S:a tight-binding model" presented at the at the "Ugo Fano Symposium" from 17/12/2015 to 19/12/2015 Rome, Italy.
	"ICAM Accomodation grant" (based on CV evaluation) for attending the CCCQS conference from 17/12/2015 to 19/12/2015 in Evora, Portugal.
	"Best poster award" (plus cash prize) for the work "Competition between Electron Phonon coupling and Spin Fluctuations in superconducting CuBiSO" presented at the European Conference on the "Physics of Magnetism" from 27/6/2011 to 1/7/2011 Poznan, Poland.[1]
Peer-Reviewing	Physical review Letters, Physical review B, Remote sensing
PUBLICATIONS	

Complete LIST OF PUBLICATIONS AVAILABLE on Google Scholar

Rome, February 28, 2025

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[1]Issued by the National Academy of Science of Poland.