



LUCA BONDÌ

Knowledge Teaching - Knowledge Learning
Problem Seeking - Problem Solving

CONTACTS

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LANGUAGES

Italian NATIVE
English FLUENT

SKILLS

- Fast Learning**
4 degrees, 6+ career domains
- Multi-Level Communication**
Tutoring, conferences, Toastmasters
- Pattern Recognition**
Cross-domain analytical insight
- Interdisciplinary Thinking**
Physics · ML · Materials · Bio · Engines
- Rapid Prototyping**
3D design & print, sensor R&D, HW dev
- Systems Thinking**
First-principles to deployment thinking

REWARDS

- Lions Club Prize**
Best PhD Thesis - Scientific Innovation
- 3 Minute Thesis Winner**
University of Bologna
- Toastmasters**
Club Contest Winner

CERTIFICATIONS

- Toastmasters Pathways - 2026
- Visionary Communication (L1, L2)
- Mentor Program

MEMBERSHIPS

- Mensa Italia
- Toastmasters CrescitaPro (IT)
- Toastmasters Achievers (US)

WORK EXPERIENCE

- Physics and Chemistry LLM Fine Tuning — Outlier** (2025 (tasks))
Prompt generation, evaluation and editing for AI model training in STEM domains.
- University Tutor — University of Bologna** (2020 - 2026)
1000+ Students. Physics (Algebra & Geometry, Nanotechnology Lab, Electronics), Engineering (General Physics, Algebra, Crash Courses), Statistics (Linear Algebra).
- ML Engineer (Mid) Computer Vision + R&D — Cimbria** (2023 - 2025)
Low-latency AI systems research, materials consulting, 3D prototyping, sensor R&D, low-latency CPU algorithms. R&D transfers: Italy, Serbia, Germany.
- Postdoctoral Research in Physics — University of Bologna** (2023 (8 mo.))
New analytical techniques applied to materials and biological cells.
- R&D + Marketing & Service — Torrecid** (2016 (6 mo.))
Development and in-situ optimization of ceramic and glass coloring. R&D transfers: Russia.

EDUCATION

- Ph.D Physics — Nanoscience** (EXCELLENT)
Organic semiconductor/electrolyte interfaces
- B.Sc Physics** (110/110)
Photocurrent generation at organic heterojunction-electrolyte interface for optoelectronic biosensor implementation
- M.Sc Photochemistry and Molecular Materials** (110/110)
Structural colour from cellulosic materials
- B.Sc Chemistry and Material Chemistry** (110/110)
Synthesis and characterization of coordination polymer

INTERNATIONAL & RESEARCH EXPERIENCE

- Cambridge, UK**
Master Thesis research internship
- San Sebastian, Spain**
Researcher at POLYMAT / UPV-EHU
- Russia · Serbia · Germany**
Transfer Technician · R&D
- Horizon Europe · FET Open**
Scientist, Lion-Hearted collaboration
- 7 International Conferences**
Presenter & Speaker
- 8 Scientific Papers**
130+ citations · Wiley, ACS, RSC, SIF

TECHNICAL SKILLS

- Coding:** Python (Pytorch, OpenCV, PyQt, Sklearn, Tensorflow, Opencvino, Axcelera, Hailo), C/C++ (Intel Intrinsics), MATLAB.
- Materials:** TGA, Chromatography, Chronoamperometry, Chronopotentiometry, EIS, DSC, DLS, CV, Z-Potential, XRPD, UV-Vis Spectroscopy, NC-AFM, KPFM, DMA, Microfabrication, 3D printing, Fusion360.
- Soft-skills:** Adaptive Communication, Epistemic Honesty, Honest Feedback, Framework Organization (Agile, Scrum, Gantt).

INTERESTS

- Public Speaking
- AI-Agents & LLM
- Content Creation
- Engine Design & Tuning
- Philosophy
- Fringe Science
- Cutting-edge Technology