Lia Giulia D'Amico

PhD candidate in Physics

About Me

As a PhD student in STEM fields, I am determined to enhance my leadership skills to guide research activities and promote the development of an equitable and stimulating environment for young researchers.

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Bologna, Italia

Skills

- Programming
- Data Analysis (C++, Python, Matlab, Excel)

- Planning
- Report and Article Writing
- Scientific Dissemination

Languages

- Spanish - basic
- English - excellent

Interests & Values

- Mountain, Climbing, Cinema
- Sustainability, dedication, integrity

References

Beatrice Fraboni
Full professor
@ Univeristà di Bologna

Email : beatrice.fraboni@unibo.it

Education

Highschool Diploma in Classic Studies
Liceo Classico Minghetti, Bologna 2012 - 2017

Bachelor's Degree in Physics
University of Bologna 2017 - 2020

Internship abroad
Norwegian University of Science and Technology 2022
@ Department of Materials Science and Engineering
Focus: Cz Silicon wafers, wafer cutting, solar cells efficiency

Master's Degree in Material Physics and Nanoscience
University of Bologna 2020 - 2022
Final grade: 110/110 cum laude
Thesis: Characterization of kerfless-cut monocrystalline silicon wafers for photovoltaic applications

Company Internship
Enereco SPA 2022 - present
Design of hydrogen gas sensors with passive reading and easy integration with gas distribution infrastructures

PhD candidate
University of Bologna 2022 - present
Development and characterization of innovative sensors for hazardous gases based on organic semiconductor polymers
- Planning research project phases
- Monitoring research progress and drafting progress documentation
- Supporting staff training on equipment and safety in research laboratories

Tutor: laboratory and support for students' in the M.S. Physics - Curriculum Material Physics and Nanoscience

Conferences and Congresses

- **Cambridge Bioelectronics Symposium** June 2023
  Cambridge University, UK
  Poster: “Organic Electrochemical Transistors for Oxygen Sensing in Water with Battery Free, Near Field Communication Readout”
- **BIOEL International Winterschool on Bioelectronics** March 2024
  JKU Linz - Kirchberg in Tirol, Austria
  Oral presentation: “Hydrogel Enabled Organic Electrochemical Transistors for Battery-free Oxygen sensing in Aqueous Environments”
- **SPS Italia 2024 - Smart Production Solutions** May 2024
  Fiere di Parma, Italia
  Oral presentation: “SensIdrogen - Development of innovative solutions for hydrogen leak monitoring”

Schools and Training Courses

- **High Resolution Electronic Measurements in Nano-Bio Science**
  Politecnico di Milano June 2023
- **Physical Sensing and Processing**
  Università di Bologna July 2023
- **h-ALO Training School**
  CNR Bologna October 2023
  Advanced materials and sensing devices towards integrated systems for biodiagnostics, food safety, and environmental monitoring
- **Fare impresa: istruzioni per l’uso**
  Università di Bologna & Almacube April 2024
- **Futuro al Femminile: Women in Leadership**
  SDA Bocconi, Milano June 2024

Soft skills

My PhD research is conducted in collaboration with the Semiconductor Physics research group at the Department of Physics, University of Bologna, and the company Enereco Spa. In this context, I have developed strong organizational skills and achieved a high degree of autonomy in managing research projects. Additionally, by serving as the link between the university research group and the company, I have improved my adaptability and communication skills in this interdisciplinary environment.

My aptitude for teamwork is accompanied by a desire to create an ethically fair and stimulating work environment for young researchers who need to interface with the industry and companies.

Io, Lia Giulia D’Amico, nata a Segrate il 6 Maggio 1998, autorizzo il trattamento dei dati personali contenuti in questo Curriculum Vitae sulla base de Art. 13 del D.Lgs. 196/2003.

Bologna, 24/06/2024 Lia Giulia D'Amico