Luca Bondi (luca.bondi7@unibo.it)

Education:

2019 – Now : ***Ph.D. Nanoscience for Medicine and Environment***, Physics department, Alma Mater University of Bologna

2016 - 2019 : ***B.Sc. Physics (110/110)*** at Alma Mater University of Bologna

Thesis project: “Photocurrent generation at organic heterojunction-electrolyte interface for optoelectronic biosensor implementation” Material Physics group, Alma Mater University of Bologna

2013 - 2016: ***M.Sc. Photochemistry and Molecular Materials (110/110)*** at Alma Mater University of Bologna

Thesis project: “Structural colour from cellulosic materials”, Photonic structures in Nature and Bio-mimetic Materials research group, Cambridge University

2010 - 2013: ***B.Sc. Chemistry and Materials chemistry (110/110)*** at Alma Mater University of Bologna

Thesis project: “Synthesis and characterization of coordination polymer”, Crystal Engineering Group, Alma Mater University of Bologna

Teaching activity:

2nd semester 2020 - Tutor at **LABORATORY OF NANOSCIENCE AND NANOTECHNOLOGY** [cod. 84537] - L.M. Physics - Alma Mater University of Bologna

2nd semester 2021 - Tutor at **LABORATORY OF NANOSCIENCE AND NANOTECHNOLOGY** [cod. 84537] - L.M. Physics - Alma Mater University of Bologna

1st semester 2022 - Tutor at **ALGEBRA AND GEOMETRY** [cod. 58414] - L.T. Fisica - Alma Mater University of Bologna

2nd semester 2022 - Tutor at **LABORATORY OF NANOSCIENCE AND NANOTECHNOLOGY** [cod. 84537] - L.M. Physics - Alma Mater University of Bologna

1st semester 2023 - Tutor at **ALGEBRA AND GEOMETRY** [cod. 58414] - L.T. Fisica - Alma Mater University of Bologna

Published Papers:

• *Understanding Photocapacitive and Photofaradaic Processes in Organic Semiconductor Photoelectrodes for Optobioelectronics* (L. Bondi, T. Paltrinieri, V. Derek, B. Fraboni, E. D. Głowacki, T. Cramer)

• *Photocurrent and Photovoltage Generation Dynamics at the Organic Semiconductor/Water Interface in p-type Conjugated Polymers* (L. Bondi)

Papers in Preparation:

• *Photovoltage generation at p-type semiconducting polymer/electrolyte interface* (L. Bondi, B. Fraboni, T. Cramer)

• *P-type semiconducting polymers as photoreducing electrodes: a comparative study for Optobioelectronics* (L. Bondi, B. Fraboni, T. Cramer, M.R. Antognazza et al., D. Mecerreyes et al.)

• *Bimodal modulation of in vitro angiogenesis by photoactive polymer beads* (G. Tullii, E. Gutierrez-Fernandez, C. Ronchi, C. Bellacanzone, L. Bondi, M. Criado, T. Cramer, D. Mecerreyes, M. R. Antognazza)

Language skills:

Italian (Native speaker); English (C1)

Work experience:

02/16 – 08/16: Marketing&Service-Tecnical Assistance, Torrecid Italia (a Globalized Multinational Business Group dedicated to provide products, services, solutions and future trends to the Ceramic and Glass Sector)