# MARCO LEONARDI

SCIENTIST

## INTRODUCTION

Young scientist with great desire to use his personalknowledge in the field of chemistry and work in general, always offering the best. High capacity forproblem solving and troubleshooting. Great desire to learn and improve constantly.

## PROFESSIONAL SKILLS

English Level B1
Organic sythesis
Chemical Analysis
Problem solving
Base Python coding
Linux and MS-OS Knowledge
Trained for First Aid in lab
Office and Origin proficent user

## CONTACT DETAILS

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## MY INTERESTS

Handmade creations
Classic and Indie Music
Painting and Sketching
Tech news
Biology

## CAREER PROGRESSION

### RESEARCH FELLOWSHIP

*INSTITUTE FOR MICROELECTRONICS AND MICROSYSTEMS IMM, 2018–Present*

- Research activities on Precision Agricolture
- Preparation on hybrid nanocomposite organic-inorganic for smart fertilizer
- Intensive use of SEM and Uv-Vis analysis

### LABORATORY ASSISTANT

*TEACHER ASSISTANT IN LAB, 2017*

- Followed student in lab acticities
- Provided after-school tutoring for students

## ACADEMIC BACKGROUND

### UNIVERSITY OF CATANIA

*LICENSED AS A PROFESSIONAL IN CHEMIST (2018)*

### INSTITUTE OF BIOMOLECULAR CHEMISTRY (CNR-ICB)

*9 Moths Stage (2017)*

- Polymeric Nanoparticles preparation and characterization
- Published a paper entitled: "Essential Oils Encapsulated in Polymer-based Nanocapsules as Potential Candidates for Application in Food Preservation", DOI: 10.1016/j.foodchem.2018.06.140

### UNIVERSITY OF CATANIA

*M.Sc in Organic and Bioorganic Chemistry (2017)*

- Graduated with First Honors
- Thesis: "Essential oils encapsulated in polymeric nanoparticles: preparation, characterization and antimicrobial activity"
- Professional techniques: Organic synthesis, molecular identification through spectroscopic techniques (HNMR, CNMR, dynamic NMR, SSNMR (notions), X-ray diffraction, SEM, EDX, RBS and DLS). Nanoparticles characterization (DLS and Z-Potential)

### UNIVERSITY OF CATANIA

*B.Sc in Chemistry (2015)*

- Graduated with Second Honors 2:1
- Thesis: "Quercus robur tannins: evaluation of antioxidant activity and inhibition of alpha-glucosidase"
- Evaluation of antioxidant activity (DPPH test)
- Professional techniques: Chromatographic techniques (HPLC, LC, GC,) molecular identification through spectroscopic techniques (HNMR, UV, fluorescence, IR, X-ray, multivariate analysis and PLS \PCA approach)