



Dorsaf Bouazzi

[Redacted contact information]

ABOUT ME

As a doctor in chemistry, I am a fast learner with a strong work ethic, thriving on new challenges to reach my full potential. My academic and professional experiences have honed my communication skills, enabling me to effectively convey complex ideas. I am dedicated to advancing scientific inquiry and contributing to the academic community.

PROFESSIONAL AND WORK EXPERIENCE

[26/09/2023 – 31/01/2024]

Social welfare operator at the company "Lighthouse SRL" in Messina, Italy Main activities:

Main activities:

- Facility management,
- Workshops and recreational activities
- Intercultural and linguistic mediation

[01/04/2023 – 30/06/2023]

PhD Internship 3- Department of Mathematics, Computer Science, Physics, and Earth Science (MIFT), University of Messina, Italy

Supervision: Prof. Maria Teresa caccamo

Main activities:

- Chemical synthesis and characterized of hybrid materials using RAMAN, FTIR, SEM, TEM, and XRD techniques.
- Combined experimental and theoretical study was used towards a better examination of the properties of investigated materiel.

[04/11/2022 – 31/03/2023]

PhD Internship 2 with the Erasmus+ KA107 programme - Department of Mathematics, Computer Science, Physics, and Earth Science (MIFT), University of Messina, Italy

Supervision: Prof. Maria Teresa caccamo

Main activities:

- Synthesis and the study of new hybrid materielbased on Hydroxyapatite (HAP) and Polyethylene glycol (PEG600).

[12/11/2021 – 22/12/2021]

PhD Internship 1- Institute of Chemistry of Environments and Materials of Poitiers, University of Poitiers, France

Supervision: Prof: Jean-marc clacens

Main activities:

- Elaboration of gold and palladium-based catalysts on a hybrid citrate-PAH support was conducted. The synthesized materials were subjected to ATD/ATG thermal analysis, BET analysis, ICP analysis, and SEM analysis.

[05/05/2020 – 30/09/2020]

Physical-Chemical Teacher at "Al NAJAH private Secondary School-Kasserine, Tunisia

- Prepared and evaluated chemistry and physics lessons, aligning them with the school's study plans and educational project.
- Developed and corrected exams, ensuring effective assessment of student learning.

[10/10/2019 – 21/03/2020]

Medical Laboratory Assistant in Laboratory of Mohamed Hachem Saadaoui-Kasserine, Tunisia

- Received, processed, sampled, and analyzed various biological fluids of human origin under the supervision of medical biologists.
- Assisted in interpreting results to aid in diagnosis.

[01/06/2016 – 30/07/2016]

Internship - Base Hospital of Health Group-Department of Biochemistry-Kasserine, Tunisia

- Carried out sampling and records, prepared chemicals for water analysis, and performed regular calibration checks on measuring devices.

EDUCATIONAL QUALIFICATIONS

[01/09/2020 – 30/12/2023]

Thesis defended during graduation in Chemistry - University of Monastir-Faculty of Sciences of Monastir, Tunisia

- Thesis Topic: "Exploration of hybrid materials based on hydroxyapatite: innovative synthesis, characterizations and environmental applications"

[2017 – 2019]

Research Master's Degree in Synthesis and Physical Chemistry of Materials- University of Monastir-Faculty of Sciences of Monastir, Tunisia

- Polysaccharide-based Modified Electrode for Chemical Sensor Application
(1st and 2nd semester: 10.58/20; 3rd semester: 12.64; 4th semester: 17)

[2014 – 2017]

Bachelor's degree in chemistry-University of Monastir, Tunisia

(First year: 13.02/20, Second year: 12.22/20, Third year: 12.16/20).

TRAINING

[07/11/2023 – 13/11/2023]

Training course for food workers- Level 2, Food personnel training certificate, HACCP O.P.N. ITALFORM

[20/11/2022 – 22/01/2023]

Training in Italian language course at A1-A2 level for 30 hours,

University of Messina under the Erasmus+ program,

[04/07/2022 – 22/07/2022]

Certificate on “Academic English Writing and Presentation”

Organized by Entrepria and pinnacle Education, Monastir-Tunisia

[09/04/2022 – 10/04/2022]

Certificate of participated in the Workshop titled“Molecular Docking And Drug Design

Organized by Tunisian Association of Psycho-Neuro-Endocrino-Immunology (AT-PNEI) and Held in the Higher Institute of Biotechnology in Monastir, Tunisia

[01/01/2022 – 07/02/2022]

Training in English with the theme "TOIC PRESENTATION" (20-hour)

At Facultyof Sciences of Monastir, Tunisia

[08/03/2019 – 09/03/2019]

Participation in the 6Th Thematic School training “Surfac and linterface” application to Sensors

Organized by Prof.Nicole JAFFREZIC-RENAULT at HigherInstitute of ComputerScience and Mathematics of Monastir (ISIMM),Tunisia

SKILLS AND EXPERTISE

EXPERTISE

Inorganic chemistry, general chemistry, organic chemistry, solid chemistry, periodicity, mineral chemistry, ATR-FTIR, X-ray Diffraction- Electrochemistry, Thermal Analysis, SEM-EDS, Raman Microscope, BET Surface Area Measurement, HPLC-UV, DFT Calculations.

LANGUAGE SKILLS

Arabic: Mother Language

French: Proficient user

English: Proficient user

Italian: Basic user

PRESENTATIONS AT INTERNATIONAL CONFERENCES

[24/06/2022 – 26/06/2022]

Oral Communication at 5th International Conference on Smart Materials and Spectroscopy (SMS'2022)- Monasir, Tunis

“Efficiently Removal of Methylene Blue on Hybrid HAP Materials: Surface Properties, Kinetic Studies, and IsothermModelization” **D.Bouazzi**, A.mehri, B.Badraoui.

[19/12/2023]

Poster Presentation in the framework of international workshop on extremophiles from adaptative strategies to biotechnological applications -Messina Italy

“Enhancing Biotechnological application through in situ trehalose grafting on hydroxyapatite surface.”

PUBLICATIONS

[2023]

Beneficial effect of in-situ citrate-grafting of hydroxyapatite surface for water treatment. *Bouazzi, D., Mehri, A., Kaaroud, K., Touati, H., Karouia, F., Clacens, J. M., Badraoui, B.*
Colloids and Surfaces A: Physicochemical and Engineering Aspects 666: 131366.

[2023]

A joint experimental and theoretical study on Structural, Vibrational, and morphological properties of newly synthesized nanocomposites involving Hydroxyapatite-alt-Polyethylene Glycol (HAP/PEG). *Bouazzi, D., Chérif, I., Mehri, A., Touati, H., Caccamo, M.T., Magazù, S., Badraoui, B.*
Journal of Molecular Liquids 390: 123192.

[2024]

Quantum Computational Investigation into Optoelectronic and Topological Properties of a Synthesized Nanocomposite Containing Hydroxyapatite-alt-Polyethylene Glycol (HAP/PEG). Chérif, I., *Bouazzi, D., Caccamo, M.T., Gassoumi, B., Magazù, S., Badraoui, B., Ayachi, S.*
Colloids and Surfaces A: Physicochemical and Engineering Aspects 133442.

[2024]

Sensitive electrochemical detection of L-tryptophan using a glassy carbon electrode modified with pectin extracted from *Arthrocnemum indicum* leaves. Bourigua, S., Boussema, F., *Bouazzi, D., Mzoughi, Z., Barhoumi, H., Majdoub, H., Jaffrezic-Renault, N.*
Journal of Electroanalytical Chemistry 953: 117998.

[2024]

Development of Novel hybrid hydroxyapatite-based biosensors for the ultrasensitive detection of L-tryptophan and L-tyrosine.

Bouazzi, D., Chérif, I., Mehri, A., Touati, H., Caccamo, M.T., Magazù, S., Ayachi, S., Badraoui, B.
Journal of Electroanalytical Chemistry, *(under review)*

Aware of the consequences of making false statements, falsehood of acts and use of false facts, punishable by law according to art. 76 D.P.R. n. 445/2000 and art. 496 of the Italian Penal Code, under my own responsibility I declare that the information reported in the CV is accurate and truthful. In compliance with the law 196/03, I authorize the treatment and protection of personal data concerning me.

Messina 21/04/2024

