



CONTACT

Nouaceur 27000, Morocco
saliha.bouaouda@um5r.ac.ma
+212 641 287 661

LINKS

[LinkedIn — Saliha Bouaouda](#)
[ORCID 0009-0000-9663-462X](#)
[GitHub — Saliha-BOUAOUDA](#)
[ResearchGate — S. Bouaouda](#)

PERSONAL

Nationality: Moroccan
Driving licence: B

TECHNICAL SKILLS

Analytical Techniques

GC-MS, HPLC-MS, NMR, IR & Raman spectroscopy, ICP (AES/MS), analytical chemistry, sample preparation.

Computing, Data & AI

Python (TensorFlow, PyTorch, NumPy, Scikit-learn), MATLAB, Minitab, OriginLab, LaTeX.

Professional

Teamwork & collaboration, problem-solving, scientific communication, quality management (HSE).

LANGUAGES

Arabic — Native
French — Fluent
English — Professional working

CERTIFICATIONS & TRAINING

AI Fundamentals

DataCamp · Nov 2025

Understanding Artificial Intelligence

DataCamp · Nov 2025

General Course on Intellectual Property (DL-101)

WIPO Academy · Nov 2025

Certificate of Merit — ATMOS2025 (Poster)

Univ. Ibn Zohr & CSIC · Oct 2025

Certificate of Participation — ATMOS2025

Univ. Ibn Zohr & CSIC · Oct 2025

Communicating what research is (and is not)

Elsevier Researcher Academy · Aug 2025

Saliha BOUAOUDA

PhD Researcher · Analytical Chemistry & Phytochemistry

PROFILE

Dynamic PhD researcher in analytical chemistry and phytochemistry, with a strong foundation in advanced analytical techniques and a focus on innovation in the sourcing of natural products. Experienced in optimizing extraction methods and improving product quality, with a demonstrated commitment to sustainability and environmental stewardship. Skilled in project management and effective scientific communication, fostering collaboration to deliver impactful research outcomes. Passionate about solving environmental challenges through high-quality analytical solutions and the continuous improvement of methodologies.

EDUCATION

Ph.D. in Analytical Chemistry & Phytochemistry (ongoing)2023 – Dec 2026

Université Mohammed V, École Supérieure de Technologie (EST), Salé

Thesis: Extraction, phytochemical characterization and biological evaluation of aromatic and medicinal plants — pharmaceutical applications.

M.Sc. in Analytical Sciences & Instrumentation2021 – Dec 2023

Université Mohammed V, Faculty of Sciences, Rabat

Final project: ultrasound-assisted digestion as a clean, eco-friendly and efficient alternative for sample preparation, applied to phosphate matrices.

B.Sc. in Chemistry2016 – 2021

Université Mohammed V, Faculty of Sciences, Rabat

Final project: application of electrochemical methods in surface treatment — an overview of depollution techniques.

Scientific Baccalaureate — Physics & Chemistry2015

Lycée Kadi Ayad, Ain El Aouda

PROFESSIONAL EXPERIENCE

Research Internship — Phytochemistry & Bioactivity EvaluationDec 2025 – May 2026

Agence Nationale des Plantes Aromatiques et Médicinales (ANPMA), Taounate

- Valorization of Moroccan aromatic and medicinal plants (MAPs): extraction of bioactive compounds by ultrasound-assisted extraction (UAE) and maceration; hydrodistillation of essential oils.
- Phytochemical characterization: identification and quantification of bioactive compounds by GC-MS and HPLC-MS, with interpretation of chromatographic and mass-spectrometric data.
- In vitro biological evaluation: antioxidant (DPPH, FRAP, TAC), anti-inflammatory, antibacterial and antifungal activity assays.
- In silico studies: molecular docking with AutoDock Vina and GNINA (CNN scoring) to predict ligand–protein interactions of identified compounds.

PhD Researcher (Research Training)Jul 2025 – Present

Centre National pour la Recherche Scientifique et Technique (CNRST), Rabat

- Extraction of essential oils by hydrodistillation and maceration, optimizing conditions for maximum yield and quality.
- Phytochemical analyses using spectroscopic and chromatographic methods (IR, Raman, NMR, GC-MS, HPLC-MS).
- Research project management; collaboration with teams on data interpretation and comprehensive report writing.

Life after publication: promoting your work

Elsevier Researcher Academy · Aug 2025

Step-by-step guide to publishing your research

Elsevier Researcher Academy · Aug 2025

What plagiarism is and how to avoid it

Elsevier Researcher Academy · Aug 2025

Optimizing your research & publication strategy

CNRST & Web of Science · Jul 2025

ICAIM 2025 (Oral Presentation)

ENSA Fès · Jun 2025

Mapping the research landscape

Clarivate · May 2025

Identifying & comparing journals with JCR

Clarivate · May 2025

National Doctoral Days (JNDJC)

CPM & RNJCS · Dec 2024

Experimental Research Methodology

Université Mohammed V · Jul 2024

Excellence in Quality Management

Université Mohammed V · Jul 2024

Chemoinformatics for Medicinal Chemistry

Université Mohammed V · Jul 2024

Green Hydrogen Power-To-X Workshop

GLZ & Univ. Mohammed V · Jun 2024

- Development and implementation of innovative analytical methods to improve product quality and sustainability.

Research Assistant (Internship)May 2024 – Jun 2024

Institut National de Recherche Halieutique (INRH), Casablanca

- Sample preparation (mussels, sediments and other matrices) via freeze-drying, drying, filtration, acid digestion and microwave extraction for environmental monitoring.
- Decontamination of laboratory equipment per established protocols; management of quality documentation for calibrations.
- Preparation of calibration standards for ICP-MS, DMA and GC-MS analyses, in collaboration with researchers.
- Literature reviews and scientific monitoring of advances in organic and inorganic chemistry.
- Strict compliance with safety standards; control samples and quality testing to ensure accuracy and reproducibility.

Laboratory Manager (Professional Internship)Aug 2023 – Nov 2023

A.L.K Industries

- Chemical analyses (viscosity, solubility, density, etc.).
- Implementation of quality and safety management systems.
- Quality control of raw materials and finished products; non-conformity management.
- Risk assessment and employee training on safety standards and procedures.
- Creation of Safety Data Sheets (SDS) for each product.

Research Assistant (Final-Year Project Internship)Feb 2023 – Jun 2023

OCP-UM6P R&D Laboratory, El Jadida

- Preparation of phosphate and phosphogypsum samples; testing of various extraction methods (ultrasound, hot plate, microwave).
- Separations by centrifugation and column techniques; sample calcination.
- Preparation of standards for ICP-AES, Ion Chromatography (IC), HPLC and Atomic Absorption Spectroscopy (AAS).
- Equipment decontamination and documentation management; interpretation of results and analytical report writing.
- Literature review and scientific monitoring of phosphate matrices; laboratory waste management per standards.

Laboratory Technician (Internship)Jul 2019

Medical Laboratory, University Hospital (CHU), Rabat

- Sample collection and documentation; reception and registration of tests.
- Control of products and equipment.
- Laboratory waste management per applicable standards.

PROJECTS

PhytoNote — Validated Data-Entry App for UV Spectrophotometry2026

Sole developer · Flutter · Open source (GPL-3.0) · Android & Linux · Zenodo DOI

- Designed and developed a bench-side application for real-time, validated entry of UV-spectrophotometer optical densities, replacing error-prone handwritten-to-Excel transcription.
- 8 built-in assays (DPPH, ABTS, FRAP, CAT, TPC, TFC, antibacterial MIC/MBC per CLSI M07-A11, anti-inflammatory BSA denaturation) with formal calibration (R^2) and instant color-coded validation (~200 ms).
- Offline-first, glove-friendly interface with auto-save, live IC50 and equivalents (AAE/GAE/TE), and multi-sheet Excel export.
- Released v1.0.1 (Android APK + Linux .deb), open source under GPL-3.0 and archived on Zenodo with a citable DOI.

PUBLICATIONS & COMMUNICATIONS

Conference Communications

- Bouaouda S., Slaoui M., Alaoui I. *Chemical Characterization and Evaluation of Antioxidant and Anti-inflammatory Potential of Moroccan Medicinal Plants for Dermatological Applications*. Oral presentation, 4th International Conference on Climate Nexus Perspectives (I2CNP 2026), ENSCK, Kenitra, Morocco, 28–29 April 2026.
- Bouaouda S., et al. *Phytochemical profiling, antioxidant activity, and in silico interaction of Eucalyptus camaldulensis essential oil with ligninolytic enzymes: preliminary insights for bio-based structural timber preservation*. Accepted conference paper, 1st International Congress on Resilient and Sustainable Cities (RESSC 2026), Agadir, Morocco, 14–15 May 2026.

Manuscripts Under Review / In Preparation

- Two research articles currently under peer review in international journals (titles available on request).
- One research article in preparation.