



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di **Chimica**

Scientist- in-charge: **Dott. Mirko Magni**

Personal information

Surname	AIDLI
Name	Wafa

Education

Ph.D., Chemistry

University of Milan (UniMI) – University of Tunis El-Manar (cotutelle)

11/2018 – Present

Master of Science, Analytical Chemistry, with honors

University of Tunis El-Manar (UTM) - Faculty of Mathematical, Physical and Natural Sciences of Tunis

2015 – 2017

Bachelor of Applied Science, Chemistry, with highest honors

University of Tunis El-Manar (UTM) - Faculty of Mathematical, Physical and Natural Sciences of Tunis

2012 – 2015

Training

PhD Researcher

The Electroanalytical Chemistry Group (*IT*) - National Center for Research in Materials Sciences (*TUM*)

11/2018 – Present

Milan Governorate, Italy

Project: Development of opto/electrochemical sensors for environment pollution monitoring

- Modifying and characterization of electrodes surfaces with nanohybrid nanomaterials
- Analyzing nanomaterials using HR-TEM, UV-Visible, Fluorescence, FTIR, NMR assays
- Mastering electrochemical techniques (CV, DPV, EIS, Chronoamperometry)

Research Internship

Laboratory of analytical chemistry and electrochemistry - University of Tunis El Manar

02/2017 – 11/2017

Tunis Governorate, Tunisia

Project: Development and characterization of an electrochemical sensor based on magnetic nanoparticles towards detection of dopamine in human blood serum.

- Performed analytical validation tests (Sensitivity, Linearity limits of detection and quantification, repeatability, reproducibility, uncertainty, selectivity, and recovery)
- Synthesis and characterization of organic molecules and nanomaterials (RMN, SM, XRD, FTIR)
- Proficient in Nova software for electrochemical tests.

Bachelor Graduation Internship

The Cement Factory of Bizerte

02/2015 – 05/2015

Bizerte Governorate, Tunisia

Project: “ Monitoring of volatile compounds SO_3 , K_2O et Na_2O along the cement cooking line ”

- Performed qualitative/quantitative analysis of cement during the different stages of its production using X-ray diffraction and X-ray fluorescence, flame photometry and gravimetric analysis.
- Sampling and preparation of representative sections of raw materials, clinker and cement.

Summer Internship

The Tunisian Company of Lubricants SOTULUB

08/2014

Bizerte Governorate, Tunisia

Project: “ Quality control of regenerated oils and lubricating greases ”

- Carrying out pH test, viscosity test, flash point test, water content test
- Wastewater treatment: BOD, COD, TOC

Languages

TOEIC: 845/990

English

			B2		
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Italian

	A2				
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French

			C1		
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Arabic

					C2
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Awards & Honors

Full MAECI grant for Doctoral students, 2018-2021

Ministry of Foreign Affairs and International Cooperation, Italy

Grant for Foreign citizens and Italian citizens living abroad.

BSc Honor student, 2015

Graduation ceremony 2015 - Faculty of Mathematical, Physical and Natural Sciences of Tunis

This prize is awarded to the final year BSc student who has achieved the highest-Grade Point Average mark over all aspects of the degree and is therefore given to the top ranked BSc student in the year.

Scientific communications, assisting and tutoring

Congress participations

- 73rd International Society of Electrochemistry (ISE) Annual Meeting, Online
12/09/2022 – 16/09/2022
- XXVII Congresso Nazionale della Società Chimica Italiana
14/11/2021 - 23/ 11/2021
- Next Generation Nanoelectrochemistry Faraday Discussion
2021-11-29
- 71st Annual Meeting of the International Society of Electrochemistry , Belgrade
31/08/2020 – 04/09/2020

Didactic activity

Analytical laboratory assisting

Dipartimento di Chimica, University of Milan (UniMI)

10/05/2020 – 31/12/2021

Seminar assistance

Assisted in the organization of the seminar II Scuola Nazionale Sensori

Gargnano 17-19 october 2022

Assisted in the organization of the seminar WaterDay 2019 as an ELAN group member.

WaterDay 2019- University of Milan (UniMI)

18/12/2019

Publications

Book Chapter

Sensing Interfaces: Self-cleaning materials for electroanalytical sensing

Wafa Aidli, Valentina Pifferi, Luigi Falciola

Encyclopedia of Sensors and Biosensors., 2nd Edition, Elsevier

Published

Articles

Characterization and application of porous PHBV-based bacterial polymers to realize novel bio-based electroanalytical (bio)sensors

Ada Raucci, Antonella Miglione, Luca Lenzi, Paola Fabbri, Joshua Di Tocco, Carlo Massaroni, Daniela Lo Presti, Emiliano Schena, Valentina Pifferi, Luigi Falciola, Wafa Aidli, Concetta Di Natale, Paolo Antonio Netti, Sheridan L. Woo, Davide Morselli, Stefano Cinti

Sensors and Actuators B: Chemical Journal

Published

β -Cyclodextrin based platform for bimodal detection of o-toluidine and cholesterol: electrochemical and fluorescence sensing

Wafa Aidli, Valentina Pifferi, Abdelmoneim Mars, Daniele Marinotto, Mariangela Longhi, Amedea Manfredi, Ahmed Hichem Hamzaoui, Luigi Falciola

Electrochimica Acta Journal

Under revision

IT Skills

Nova electrochemical software

Zview

Origin

Kaleidagraph

PowerPoint

Adobe Illustrator

Adobe Photoshop

Chemdraw

HighScore

Word

Excel

Technical Skills

- Electrochemical methods: cyclic voltammetry (CV), differential-pulsed voltammetry (DPV), squarewave voltammetry (SWV), chronoamperometry (CA) and pulsed amperometry (PA), electrochemical impedance spectroscopy (EIS)
- NMR, MS, Raman spectroscopy, UV/Vis, FTIR, XRD, XRF, SEM, TEM
- Chromatography HPLC, GC, TLC

Soft Skills

Analytical & critical thinking

Project management & workflow design

Problem-solving

Work Ethic & Integrity

Inter & multidisciplinary

Adaptability & flexibility

Data analyzing

Teamwork & interpersonal skills

Research & references management

Written & Oral Communication

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000. The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.