



ELIE BOU RAHHAL

Third year
PhD student

CONTACT

+33 7 82 30 35 64

bourahhalelie@gmail.com

@ElieBouRahhal

9 Rue Saint-Evrault, 49100,
Angers, France

@MOLTECH-Anjou

PERSONAL STATEMENT

Electrochemist and organic chemist, looking forward to enrich my experience in the research field, as well as to improve my tutoring skills.

Always ready to take on new challenges and believe that chemistry can make a difference to some modern global issues, inspiring me to pursue a researcher/tutor career.

LANGUAGES

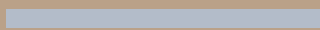
English



French



Arabic (mother-tongue)



EDUCATION

- 2021-2024 ● PhD in Physical Chemistry (*in progress*)
MOLTECH-Anjou laboratory, University of Angers
- 2020-2021 ● Master 2 LUMOMAT
Faculty of Science, University of Angers
(Grade: 14.8/20-Rank 2/14)
- 2019-2020 ● Master 1 of Physical Chemistry of materials
Faculty of Science II, Lebanese University
(Grade: 17.3/20-Rank 2/22)
- 2016-2019 ● Bachelor of Chemistry (PC program)
Faculty of Science II, Lebanese University (Grade: 15.8/20)

INTERNSHIPS

- February-June 2021 ● M2 internship at MOLTECH-Anjou laboratory
Supervisor: Dr. Christelle GAUTIER
Project: "Synthesis of specially designed diazonium salts for surface functionalization by controlled mixed layers"
- October-November 2020 ● One-month internship at MOLTECH-Anjou laboratory
Supervisors: Prof. Tony BRETON, Dr. Laure PICHEREAU
Project: "Nanofilms grafting for functional nanomaterials - Layer growth control"
- March-May 2020 ● M1 bibliographic internship (due to sanitary issues) at the Faculty of Science, Lebanese University
Supervisors: Dr. Majida JALBOUT & Dr. Amine KASSOUF
Project: "Improvement of gas barrier properties of polyethylene terephthalate (PET) by integrating graphene nanoplatelets (NPG)"

PROFESSIONAL EXPERIENCE

- Angers, France 2021-2024 ● Bachelor tutor
Teaching bachelor students at the Faculty of Science, University of Angers (practical and theoretical work)
- South Lebanon 2019-2020 ● Owner & Manager of an academic support center
Managing an educational center, assisting students in their academics, and enhancing their performance
- Beirut, Lebanon 2018-2019 ● Tutor within an academic support center
Member of a certified tutors team in an educational center, offering our expertise and personalized support to students
- Beirut South Lebanon 2015-2019 ● Private tutor
Private lessons for baccalaureate and high school students seeking help in scientific subjects

TUTORING EXPERTISE

▶ THEORETICAL & PRACTICAL WORK

Teaching bachelor students (L0, L1, L2 & L3) chemistry subjects:
Electrochemistry, Kinetics, Solution chemistry, Titration, Chromatography
Total of teaching hours: 128

▶ SUPERVISION OF INTERNSHIP STUDENTS

Supervising students for L2, L3 & M2 internships at MOLTECH-Anjou laboratory

CONFERENCE CONTRIBUTIONS

▶ ORAL COMMUNICATIONS

- GDR-PES 2023 in Nantes, France (27 & 28 November 2023)

Elie BOU RAHHAL, Marylène Dias, Christelle GAUTIER

"Controlled TEMPO-based layers: From the elaboration to the electrocatalysis application"

 Best oral communication award

- ElecNano-10th edition in Paris, France (10-12 May 2023)

Elie BOU RAHHAL, Marylène Dias, Christelle GAUTIER

"Formation of TEMPO-based layers by reduction of specially designed diazonium salts"

▶ POSTER PRESENTATIONS

- SCF congress 2023 in Nantes, France (26- 28 June 2023)

Elie BOU RAHHAL, Marylène Dias, Christelle GAUTIER

"Elaboration of controlled mixed layers by reduction of specially designed diazonium salts"

 Best poster presentation award

- Scientific day SCF-SPF in Rennes, France (24 May 2023)

Elie BOU RAHHAL, Marylène Dias, Christelle GAUTIER

"Elaboration of controlled mixed layers by reduction of specially designed diazonium salts"

 Best poster presentation award

- EUR-LUMOMAT days in Angers, France (18&19 October 2022)

Elie BOU RAHHAL, Marylène Dias, Tony Breton, Christelle GAUTIER

"Surface functionalization with controlled mixed layers by reduction of specially designed diazonium salts"

- SCF-BPL congress in Noirmoutier, France (27-29 June 2022)

Elie BOU RAHHAL, Marylène Dias, Tony Breton, Christelle GAUTIER

"New design of diazonium precursors for mixed layers elaboration on conductive surfaces"

- Journée de l'école doctorale (JED) 2022 in Rennes, France (02 June 2022)

Elie BOU RAHHAL, Marylène Dias, Tony Breton, Christelle GAUTIER

"New design of diazonium precursors for mixed layers elaboration on conductive surfaces"

- EUR-LUMOMAT day in Rennes, France (26 April 2022)

Elie BOU RAHHAL, Marylène Dias, Tony Breton, Christelle GAUTIER

"New design of diazonium precursors for mixed layers elaboration on conductive surfaces"

CERTIFIED PARTICIPATIONS

- Journée de l'école doctorale (JED) 2023 in Nantes, France (25 May 2023)
- Journées d'électrochimie (JE) 2022 in Mons, Belgique (4-7 July 2022)

SCIENCE POPULARIZATION

- Nuit Européenne des chercheurs 2023 in Angers, France (29 September 2023)
LEGO game visualizing nanomaterials conception
- Popularization of M2 internship project
LEGO game visualizing surface functionalization by reduction of diazonium salts for sensing applications

SCIENTIFIC PUBLICATIONS

HARNESSING ARYLDIAZONIUM SALTS REDUCTION FOR TAILORED BI-FUNCTIONALIZED SURFACE ENGINEERING

Julien BILLON, Elie BOU RAHHAL, Tony BRETON, Christelle GAUTIER
Submitted on December 15th 2023, Chemistry of Materials

SKILLS

TECHNICAL SKILLS

- Electrochemical characterization technics: CV, CA, EIS,...
- Gravimetric technic: Quartz crystal microbalance-QCM
- Organic Synthesis & Chromatography technics
- Spectroscopic technics: NMR, UV-Visible, AFM, XPS, IR
- PPF substrates preparation for AFM & XPS analysis
- Mass spectrometry

COMPUTING SKILLS

- Microsoft Office Suite
- ChemDraw, ChemDraw 3D
- Sigmaplot, Spectragryph
- MestReNova
- EC-lab

REFERENCES

Dr. Christelle GAUTIER

✉ christelle.gautier@univ-angers.fr

☎ +33 6 85 97 65 17

Dr. Marylène DIAS

✉ marylène.dias@univ-angers.fr

☎ +33 6 61 77 37 21