



## **Nadia Nimer Moughames**

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### **Personal Statement**

Chemistry graduate from the American University of Beirut. Extensive teaching experience in schools, including International College, and tutoring students since my first year at university. Solid foundation in analytical, organic, and physical chemistry, with hands-on experience in advanced laboratory techniques and specialized instruments. Committed to inspiring students, fostering curiosity, and helping them develop a deep appreciation for Chemistry

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### **Education**

**Bachelor of Science in Chemistry** – American University of Beirut (AUB)

#### **Relevant Coursework & Skills:**

- **Education Courses:** Educational psychology, effective teaching strategies, lesson planning, differentiated instruction, inclusive classrooms, curriculum continuity, collaboration, and communication with students and parents
- **General Chemistry:** Atomic structure, chemical bonding, stoichiometry, acids and bases, thermochemistry
- **Organic Chemistry I & II:** Reaction mechanisms, functional groups, synthesis techniques
- **Inorganic Chemistry I & II:** Chemical bonding, coordination compounds, periodic trends, qualitative and quantitative analysis
- **Physical Chemistry:** Thermodynamics, kinetics, quantum chemistry, mathematical modeling
- **Chemistry Laboratory Courses:** IR, NMR, UV-Vis spectroscopy, titrations, chromatography, standard experimental methods

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## Work & Teaching Experience

### Teaching Assistant – International College | Beirut, Lebanon | 2023

- Delivered engaging high school Chemistry lessons aligned with curriculum standards
- Supported students with diverse learning needs through differentiated instruction and hands-on lab activities
- Collaborated with teachers to maintain curriculum continuity and foster a positive, inclusive classroom
- Applied educational strategies to enhance student engagement and critical thinking

### Chemistry Tutor –Bright champsAcademy | 2023-2026 - present

- Delivered high school Chemistry lessons following **American/IB curriculum standards (students from different regions including uk USA and India )**
- Fostered critical thinking and maintained a positive classroom environment

### Volunteer Tutor – Various NGOs & Online Platforms (e.g., Momken, Fekra) | Beirut, Lebanon (2023-2025)

- Delivered lessons in all subjects (computer, math, chem) students from **Grade 1 to Grade 12**, including high school
- Completed a **minimum of 32 volunteering hours per semester** since first year at university
- Applied differentiated instruction and inclusive teaching strategies to foster curiosity, critical thinking, and academic confidence

### Chemistry Intern – Beesline | Beirut, Lebanon | summer 2025

- Conducted formulation and testing of cosmetic products, analyzing raw materials and final products
- Applied analytical and organic chemistry knowledge in industrial processes
- Documented procedures, results, and laboratory reports according to standard protocols

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## Research & Workshops

- Undergraduate research workshops: research design, lab safety, data analysis, scientific communication
- Presented projects at AUB Chemistry Carnival & TRED Chem Carnival

- Online workshops: green chemistry, cosmetic formulation, scientific writing
  - L'Oréal Paris workshop at AUB
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### **Leadership & Volunteering**

- **Sophomore Representative** – Chemistry Student Society, AUB: Represented students and planned educational/community events
  - **Volunteer Chemistry Tutor:** Tutored high school and freshman university students, including underprivileged youth, 32 hours per semester
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### **Skills**

**Teaching & Educational Skills:** Lesson Planning & Delivery, Differentiated Instruction, Classroom Management, Student Engagement, Mentoring & Leadership

**Soft Skills:** Communication, Collaboration, Critical Thinking, Problem Solving, Adaptability, Creativity

**Chemistry & Lab Skills:** Analytical, Organic, Inorganic, Physical Chemistry; IR, NMR, UV-Vis, Titrations, Chromatography, Scientific Reporting

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### **Certifications & Achievements**

- USAID Higher Education Scholarship
- Participation in AUB Chemistry Carnival & TRED Chem Carnival
- Recognition for Volunteering & Tutoring Excellence