

JOANNA YOUNES

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EDUCATION

Grand-Lycée-Franco-Libanais – Beirut– French Baccalaureate_Scientific option

- Graduated in June 2016 with high distinction.

American University of Beirut — Bachelor in Chemical Engineering

- Expected graduation in June 2020.
- Cumulative GPA: 3.16

SKILLS

- Microsoft Office; Basics in C++, LabVIEW, Xcalibur (GC-MS), SOLIDWORKS and AutoCAD; intermediate level in MATLAB and Aspen HYSYS, and ANSYS Fluent.

LANGUAGES

Fluent: English, French, Arabic (Native)

Basics: Spanish

EXPERIENCE

Lab Assistant, Laboratoires Feghali

May -June 2014

Beirut, Sin El Fil

- Assisted the lab technicians during multiple hematological and bacteriological tests while learning the functioning of machines used for analysis and data acquisition.

Research student, American University of Beirut

Oct 2018-Jan 2019

Dr. Cassia Boyadjian

- Responsible of post-processing gas chromatography-mass spectroscopy data of samples obtained with the pyrolysis of HDPE plastics to produce oil using the Xcalibur software.
- Literature review of project consisting in producing hydrogen from water-splitting reactions using g-C₃N₄ catalyst.

Project intern, University of Limerick-Ireland

June-Aug 2019

Dr. Ahmad Albadarin- Dr. Akeem Olaleye

- The project focused on the dilute phase pneumatic conveying of cohesive dairy powders. The task was divided into a numerical component (ANSYS Fluent, SOLIDWORKS), and experimental component(Lab test rig), in order to assess the effect of various bends on the efficiency of the conveying.

PROJECTS

IBDAA 2018's edition: Sustainable cities and communities

- Created a portable spectrometer measuring the level of nitrites in meat juice extracts and indicating if the product lies in an acceptable concentration range.

IBDAA 2019's edition: *Re-think plastics*

-Came up with a process that can eventually be implemented on a large scale wastewater treatment facility, to remove microplastics from water using a flocculation-coagulation mechanism (Al_2SO_4 coagulant) coupled with a feasibility and economic analysis of the project.

EXTRA-CURRICULAR

Member of the TIES organization, a volunteering group dedicated in the moral support of patients within the medical center of AUBMC.