SALLY BADRAN

ABOUT ME

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EDUCATION

Aug 2018 - May 2022 •American University of Beirut (AUB)

Bachelor of Engineering in Chemical Engineering

Cumulative GPA: 87.34 (3.8/4)

2003 - 2018 • National Evangelical School in Nabatieh

(NESN)

Baccalaureate in Life Science (Average: 18/20)

EXPERIENCE

August 2021- Research Assistant at the chemical engineering laboratory in AUB

present

Project aim: enhance the efficiency of delivering a block co polymer-coated anticancer drug

- Operated on Flash nano-precipitation (FNP) machine to produce nanoparticles
- Characterized nanoparticle size distribution using Dynamic Light Scattering (DLS) machine
- Produce calibration curves for the quantification of the drug using High Performance Liquid Chromatography (HPLC)

May 2021- Summer Internship at chemical engineering laboratory in AUB

July 2021

Project aim: incorporate metallic organic frameworks (MOFs) to add an antibacterial property to Poly Vinyl Chloride (PVC) nanofibrous membranes

- Synthesized PVC nanofibrous membranes by operating on an electrospinning machine
- Characterized the membranes by operating on several machines:
- Scanning Electron Microscope (SEM)
- Contact Angle System
- Capillary Flow Porometer (CPF-1100AH)
- Investigated the nanofibers diameters using software called Digmizer
- Synthesized UIO66-Zr snd ZIF-8 metallic organic frameworks (MOFs) crystals and characterized them using the following machines:
- -X-Ray Diffraction (XRD)
- Atomic Absorption Spectroscopy

Jan 2020

• Optimized a waterproof electrospun cotton fabric and tested its efficiency

EXTRACURRICULAR ACTIVITIES

Sep 2021- International Biodiversity Day at AUB (IBDAA) 2022

present Leader of IBDAA 2022 event planned to take place on AUB Campus in April 2022

Aug 2020- Students for Sustainable Energy for all (SSEA) club, AUB, Lebanon

Feb 2021 Sponsorship Representive for Heat Up a Village (HUV), project that aims to install

heating solar pannels for houses affected by Beirut explosion

Aug 2020- International Biodiversity Day at AUB (IBDAA) 2021

April 2021 Social media strategist and event planner for IBDAA 2021 event (Theme: Rebirthing Beirut-post explosion) which took place virtually on ZOOM and involved 7 participating

national universities and +300 participants

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PROJECTS AND PUBLICATIONS

Aug 2021-Final Year Project: Anaerobic Co-digestion of Sewage Water and Food Waste

present •Modeled a MATLAB code of Anaerobic co-digestion using Anaerobic Digestion Model 1 (ADM1)

•Established an Aspen HYSYS simulation for biogas upgrade and energy generation

•Performed an economic analysis of the proposed flowsheet

Factors Associated with Emotional Intelligence Among Youth University Students Dec 2020

(Ibtissam Sabbah, Hala Sabbah, Rania Khamis, Reve Berbari, Sanaa Sabbah, Sally Badran, and

Nabil Droubi) published in the European Journal of Medical Health and Sciences

WORKSHOPS AND CERTIFICATIONS

 Empathy and Ideation workshop by the Interdisciplinary Design Practice Program (IDPP) Oct 2021

•"Sustainability Assessment" to learn the Lifecycle Assessment (LCA) tool workshop Aug 2021

• Human-Centered Design workshop by the Interdisciplinary Design Practice Program (IDPP) Mar 2021

• Leadership: From Conflict to Collaboration (By AUB Office of Student Affairs)

2020 • First Aid & CPR certified (by Red Cross)

• Leadership & Time Management (by Waznat)

• 11th Global Classroom Model United Nations (GC LAU MUN) participation

SUMMARY SKILLS

2019

2017

2017

Languages: Arabic and English: fluent in reading, speaking, and writing. Turkish: Elementary in speaking.

Computer skills: Excel, Word, PowerPoint, MATLAB, LabVIEW, C++, LoopPro, Aspen HYSYS

Soft skills: technical and creative writing, research, laboratory and safety skills, multitasking, problem-solving, communication, and teamwork

Interests: pharmaceutical production, drug delivery, biology, nanotechnology, sustainability, cancer, and philosophy

Hobbies: hiking, basketball, and guitar playing