

ROZETTE HESSE

Personal information

📍 Hamra, Lebanon
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Date of Birth: 09/06/1999 | Nationality: Lebanese

Education

Aug 2017-present	Lebanese American University B.S. in Bioinformatics, Minor in Business Data Analytics Honor List Relevant Modules: Database Management Systems, Introduction to Script Programming, Introduction to Object-Oriented Programming, Objects and Data Abstraction, Algorithms and Data Structures, Calculus III, Differential Equations, Biostatistics, Data Mining, Data Driven Design Thinking, Introduction to Applied Data Analytics.	Beirut, Lebanon
2004-2017	Lycee Hanaway- Tyre Lebanese Baccalaureate Certificate of Secondary Education in Life Sciences Ranked 10 th in the district of South Lebanon.	Tyre, Lebanon

Relevant Experience

Apr 2019-Present	Academic Success Center LAU Tutor ● Provide walk-in and online tutoring sessions in biostatistics along with SPSS tutorials. ● Deliver problem-solving sessions in line with curriculum and coordination with course instructors. ● Took initiative to create summary sheets of the significant material of each chapter in the course.	Beirut, Lebanon
Jun 2019-Aug 2019	Lyra Analytics Intern ● Led a team of four to aggregate information, clean, and explore data on different client projects. ● Collaborated in teams of three to successfully create reliable predictive models. ● Tailored interactive dashboards to specific customers' need to access and use their data. ● Utilized the models to guide clients to increase their profits.	Remote, Lebanon
Dec 2020-Present	Department of Informatics University of Bergen Research Assistant ● Conducting literature review on topological edge set enrichment analysis and dysregulated pathways. ● Optimizing the mathematical method used to calculate the topological edge scores. ● Validating the adjustment's effect on identifying the usual and dysregulated pathways.	Remote, Lebanon
Jan 2020-Present	School of Arts and Science LAU Capstone Project-Research Assistant ● Review literature related to integrin family proteins and cleft palate formation. ● Conduct coevolutionary studies on integrin subfamilies. ● Predict secondary structures of certain integrin subunits using I-TASSER. ● Investigate protein-protein interactions via molecular docking using Swisspdb.	Beirut, Lebanon
Jan 2020-Apr 2020	Department of Natural Sciences LAU Research Assistant ● Conducted primary source research through surveys on Keratoconus across the Lebanese population. ● Cleaned, filtered the data, and explored the important genetic attributes using Excel. ● Studied the relationship between demographics and KC using SPSS and R. ● Validated the accuracy of the logistic regression model created to display the important attributes.	Beirut, Lebanon

Other Work Experience

Oct 2019- May 2020	MMKN Volunteer	Beirut, Lebanon
	● Prepare ninth grade students for the Lebanese Brevet official exam in the field of chemistry. ● Manage classroom behaviour of twelve students to assess their needs and weaknesses. ● Arrange instructional approaches to enhance their understanding on previously explained material.	
Aug 2017- Present	LAU Admission and Dean Office Work-Study Student Assistant	Beirut, Lebanon
	● Advise new students and returnees with registration and major related issues. ● Collect feedback from students on workshops and events done on campus. ● Communicated with school offices to ensure validation of their attendance to the LAU annual dinner. ● Assisted in preparing files for students receiving aid for annual scholarships.	
Jul 2019- Aug 2019	Mashrek Medical Diagnostic Center Intern	Tyre, Lebanon
	● Examined urine cultures and stool microscopic tests to detect the presence of bacteria. ● Diagnosed infections and employed fertility tests. ● Prepared results after inserting them on the database.	
Jan 2020- Jan 2021	Youth Opportunities Global Ambassador of Lebanon	Lebanon
	● Source and post different opportunities on the official website platform. ● Manage "Lebanese Youth Opportunities" page on social networking sites. ● Partnership with different institutions to spread the cause of the platform.	

Peer Reviewed Publications

- Hamman, A., Hesse, R., Atat, O., Najem, S., Azzam, W., Farraj, L., & Sabbagh, M. (2020), Global Increase in the Prevalence of Keratoconus across the Lebanese Population (*in review*)
- Kousar, S.S., Hesse, R., K.S, M. (2020), A Comprehensive Review on Biomedical Applications of Biomaterials: Patents of the Decade (2011-2020) (*in review*)

Achievements

Jun 2020	Change the World Model United Nations	Online Conference
	● Attended CWMUN virtual edition conference as the delegation of Turkey. ● Conducted extensive research to develop a position on dealing with the pandemic of COVID19. ● Collaborated with a working group to create a comprehensive draft on international resolutions. ● Delivered formal speeches and impromptu debates to advocate the position of the delegation.	
Mar 2019	LAU Collegiate Programming Contest	Beirut, Lebanon
	● Awarded ninth place as a team of three for solving coding problems written in java language.	
Nov 2019	CRISPR	Online Course
	● Completion of a course on Clustered Regularly Interspaced Short Palindromic Repeats.	

Additional Skills

IT	SQL, Oracle, Visio, Java, Python, R, SPSS, Tableau Public.
Languages	Fluent in Arabic (native) and English (written and spoken).

Interests and Activities

- Music as a new language I am learning on the violin.
- Creative Writing as to express my thoughts and curiosity.
- Fitness as part of my commitment to a healthy and fit lifestyle.

References available upon request