

ROZETTE HESSE

📍 Beirut, Lebanon

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Education

Aug 2017- Jun 2021	Lebanese American University B.S. in Bioinformatics, Minor in Business Data Analytics Placed on Honor List, cGPA:3.31 Relevant Modules: Database Management Systems, Introduction to Script Programming, Introduction to Object-Oriented Programming, Algorithms and Data Structures, Calculus III, Differential Equations, Biostatistics, Data Mining, Data Driven Design Thinking.	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- May 2021	Academic Success Center LAU Tutor <ul style="list-style-type: none">• Provided walk-in and online tutoring sessions in biostatistics along with SPSS tutorials.• Delivered 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 <ul style="list-style-type: none">• 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
Feb 2021- May 2021	Department of Arts and Science LAU Researcher <ul style="list-style-type: none">• Applied sequence alignment on melodies converted to alphabetic sequences of pitch intervals.• Modeled the MSA using a profile HMM after computing global frequency of pitch intervals.• Implemented network science approaches to cluster the aligned songs based on tune families.	Beirut, Lebanon
Dec 2020- Present	Department of Informatics University of Bergen Research Assistant <ul style="list-style-type: none">• Conducted literature review on topological edge set enrichment analysis and dysregulated pathways.• Optimizing the mathematical method used to calculate the topological edge scores.• Preparing a new dataset of Cancer subpathways.• Validating the adjustment's effect on identifying the usual and dysregulated subpathways.	Remote, Lebanon
Jan 2020- May 2021	School of Arts and Science LAU Capstone Project-Researcher <ul style="list-style-type: none">• Reviewed literature related to integrin family proteins and cleft palate formation.• Conducted coevolutionary studies on integrin subfamilies.• Predicted secondary structures and investigated PPI of integrins beta8 and alpha10.• Studied computationally the effect of mutations in proteins' stability and on cleft palate formation.	Beirut, Lebanon
Jan 2020- Apr 2020	Department of Natural Sciences LAU Research Assistant <ul style="list-style-type: none">• Cleaned, filtered, and explored data from surveys on Keratoconus across the Lebanese population.• 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
	<ul style="list-style-type: none">● Prepared ninth grade students for the Lebanese Brevet official exam in the field of chemistry.● Managed classroom behaviour of twelve students to assess their needs and weaknesses.● Arranged instructional approaches to enhance their understanding of previously explained material.	
Aug 2017- Dec 2020	LAU Admission and Dean Office Work-Study Student Assistant	Beirut, Lebanon
	<ul style="list-style-type: none">● Advised new students and returnees with registration and major related issues.● Collected 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.	
Jul 2019- Aug 2019	Mashrek Medical Diagnostic Center Intern	Tyre, Lebanon
	<ul style="list-style-type: none">● 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
	<ul style="list-style-type: none">● Searched for and posted different opportunities on the official website platform.● Managed "Lebanese Youth Opportunities" page on social networking sites.● Collaborated 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*)

Affiliations

Mar 2021- Jun 2021	4th LAU Case Competition Contestant	Online Competition
	<ul style="list-style-type: none">● Attended webinars and workshops on problem-solving frameworks, data science, project management, financial analysis and pitching fundamentals.● Worked in a team of 4 to design virtual reality products for Disney and developed a business plan.	
Jun 2020	Change the World Model United Nations	Online Conference
	<ul style="list-style-type: none">● 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
	<ul style="list-style-type: none">● Awarded ninth place as a team of three for solving coding problems written in java language.	
Nov 2019	Clustered Regularly Interspaced Short Palindromic Repeats	Online Course Completion

Skills, Languages, & Interests

IT	SQL, Oracle, Visio, Java, Python, R, Tableau Public.
Languages	Fluent in both Arabic and English.
Interests	Playing the Violin, Creative writing, Fitness.

References available upon request