

Mohammad Hamdar

PERSONAL INFORMATION

Nationality: Lebanese

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EDUCATION

American University of Beirut

Master of Science in Mathematics

Riad El Solh, Beirut

Aug 2019 – May 2021

Thesis: The Riemann Hypothesis for Period Polynomials of Modular and Hilbert Modular Forms

Advisor: [Prof. Wissam Raji](#)

Lebanese University

Bachelor of Science in Mathematics

Hadat, Beirut

Oct 2016 – June 2019

EXPERIENCE

Research Assistant

American University of Beirut

Riad El Solh, Beirut

Aug 2021 – Present

I am currently working with [Prof. Victor Araman](#) in the Olayan School of Business. Our research is in Stochastic Modeling. Throughout this project, I am learning and working with several mathematical topics such as: Itô Calculus, Stochastic Differential Equations, Diffusion Theory, and Dynamic Programming.

Graduate Teaching Assistant

American University of Beirut

Riad El Solh, Beirut

Aug 2019 – May 2021

I was a TA for a number of courses at the department of mathematics: Linear Algebra, Introduction to Analysis (twice), and Graduate Complex Analysis. I graded students' homework, gave recitation sessions, and proctored numerous exams. Besides, I worked in the AUB Math Clinic where I helped students with their coursework, and also discussed and shared anything related to Mathematics.

Private Tutor

2016 – 2021

I taught a lot of students coming from different backgrounds, and assisted them in various projects and assignments. I was also involved in mentoring and motivating students of different age groups to learn and appreciate mathematics.

SERVICE AND PROFESSIONAL ACTIVITIES

Science Fair Judge

Mar 2021

Served as a judge in the 26th Annual Science, Math and Technology Online Fair organized by the Department of Education, Education Students Society, and Science and Mathematics Education Center at the American University of Beirut. This is the only science fair that is organized in Lebanon.

PUBLICATIONS

Other Academic Publications

- *Economic and Technical Modeling of the Lebanese Crypto Currency: Implication for a Digital-Lira (DL)* (with Bassam Hamdar and Tarek Saad), International Journal of Business Administration, vol. 12, no. 2 (2021)
- *Economic Analysis of the Negative Interest Rate Policy (NIRP) on Asset Price Inflation: The Case of the Eurozone* (with Bassam Hamdar and Yamen Skheita), International Journal of Economics, Commerce and Management, vol. VIII, issue 10 (2020)

TALKS

- *Maximum Principles for Elliptic Operators*, American University of Beirut, May 12, 2021
- *The Riemann Hypothesis for Period Polynomials of Classical and Hilbert Modular Forms*, American University of Beirut, April 27, 2021

CONFERENCES ATTENDED

- *LICMA'17: Lebanese International Conference on Mathematics and Applications*, Lebanese University, May 2017

SKILLS

Languages

Arabic (native), English (proficient), French (basic).

Computer Skills

Python, \LaTeX , and PARI/GP.