

# Mohammad Hamdar

## PERSONAL INFORMATION

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**Nationality:** Lebanese

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## EDUCATION

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### 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*

## PROFESSIONAL EXPERIENCE

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### Research Assistant

*American University of Beirut*

Riad El Solh, Beirut

*Aug 2021 – Present*

I am currently working under [Prof. Victor Araman](#) in the Olayan School of Business. Our research is in the theory of Sequential Analysis. Throughout this project, I am learning and working with several mathematical topics such as: Stochastic Processes, Itô Calculus, Dynamic Programming, Diffusion Approximation, and Large Sample Analysis.

### 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

*Feb 2016 – Present*

- Was involved in mentoring and motivating students of different age groups to learn and appreciate mathematics
- Taught a lot of students coming from different backgrounds, and assisted them in various projects and assignments

## SERVICE AND PROFESSIONAL ACTIVITIES

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### 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

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### 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)

## CONTRIBUTED TALKS

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

## RELEVANT SKILLS

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### Languages

Arabic (native language), English (fluently read, spoken and written), French (basic knowledge).

### Computer Skills

Good knowledge of  $\text{\LaTeX}$ , Maple, and PARI/GP.