

# FATIMA GHADIEH

Beirut, Lebanon ◊ [\[Email\]](#) ◊ [\[LinkedIn\]](#) ◊ [\[Github\]](#) ◊ [\[Website\]](#)

## EDUCATION

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### American University of Beirut (AUB)

September 2019

B.E. in Electrical & Computer Engineering

CGPA: 4.0 - Dean's Honor List

Focus in Machine Learning, Robotics, & Control Systems. Minor in Economics

## EXPERIENCE

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### Final Year Project, AUB

September - Present, 2022

#### *HMI & Shared Control for Autonomous Vehicles*

- Analyzing HMI-related literature and standards to develop efficient display interfaces that improve control handover between a vehicle and the driver.
- Using CARLA simulator to compile a dataset for a stop & go scenario to train a driver intention recognition model.
- Developing, testing, and validating a CNN and an LSTM model while also working on additional driver intention recognition features.

### Adaptive Systems Laboratory, EPFL

July - September, 2022

#### *E3 Research Intern (2% admission rate)*

- Joined the ASL lab at EPFL as part of its *Excellence in Engineering Fellowship Program*.
- Worked on a project involving Multi-Agent Reinforcement Learning within POMDPs.
- Developed a paper which was submitted for publication.

### Undergraduate Research Volunteer Program, AUB

September 2021 - May, 2022

#### *Research Volunteer*

- Assisted final year students on their final year project which uses data from social media platforms to detect offensive gender-based language using NLP methods.
- Built a web parsing tool to collect data and helped in preprocessing.

### Al Ghurair Hub in Digital Learning, AUB

January - December, 2022

#### *Data Analyst*

- Tracked data regarding the performance of 150+ students taking EECE 230X "Introduction to Computation and Programming" that was being offered for the first time in a mixed-learning format.
- Managed and coordinated with a team of 14 coding coaches who were conducting office hours and labs.
- Performed extensive statistical analysis and prepared bi/weekly reports regarding course performance.

## PUBLICATIONS

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Kayaalp, M., **Ghadieh, F.**, & Sayed, Ali H., "Policy Evaluation in Decentralized POMDPs with Belief Sharing", *IEEE Open Journal for Control Systems*, 2023. DOI: 10.48550/arXiv.2302.04151

## PROJECTS

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- Controller for the AUB Autonomous Ground Vehicle
- AUBot: A Chatbot for AUB students FAQs

## ACHIEVEMENTS

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- LEBNet EIC Scholarship Recipient, *LEBNet*
- MEPI-TLS Gender Scholarship Recipient, *United States Middle East Partnership Initiative*

## EXTRACURRICULAR ACTIVITIES

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### Digital Outreach Volunteer

June - December, 2021

Assisted in the preparation of a cutting-edge online certification program in Computer Science that makes coding more accessible in the Arab World.