

# YASMINE ABU ADLA

BIOMEDICAL ENGINEER

## PERSONAL PROFILE

Biomedical engineer with a research background in Artificial Intelligence, Machine Learning, and signal processing

## AREAS OF EXPERTISE

- Machine Learning
- Deep Learning
- Data Science
- Optimization
- Signal Processing
- Image Processing

## PROGRAMMING LANGUAGES & SOFTWARE

- Python & C++
- MATLAB, SIMULINK, LabVIEW, MultiSim, Arduino, Eagle, Weka, SolidWorks, Raspberry Pi, myRIO, and MicroCap

## WORK EXPERIENCE

### RESEARCHER

American University of Beirut, Middle East Partnership Initiative (MEPI) | September 2021-Present

### RESEARCH ASSISTANT

University of Technology of Troyes, France | May 2021 - September 2021

- Designed a radar system that detects transfer phases in clinical tests using the Vicon system
- Performed data acquisition & signal processing
- Designed a Machine Learning model

### UNDERGRADUATE RESEARCH ASSISTANT

Rafik Hariri University, Lebanon | September 2019 - May 2021

- Collect clinical data
- Analyze and evaluate clinical data gathered during research
- Conduct statistical analyses of datasets
- Conduct literature reviews
- Check facts, proofread, and edit research documents
- Prepare articles, reports, and presentations

## EDUCATION

### MASTERS IN ELECTRICAL & COMPUTER ENGINEERING

American University of Beirut | September 2021 - Present  
Artificial Intelligence for Social Good

### BE IN BIOMEDICAL ENGINEERING

Rafik Hariri University | September 2017 - July 2021  
President's Honor List - High Distinction (GPA: 92.67)

### LEBANESE BACHELORETTE IN LIFE SCIENCE

Bayader School | July 2017

Distinction

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## PUBLICATIONS

'Ayon, N. S., Adla, Y. A., & Zarafa, R. (2019). To What Extent the Educational Engineering Program at a Private Lebanese University Prepares Students for the Workplace. *Creative Education*, 10, 1635-1652. <https://doi.org/10.4236/ce.2019.107117>

Sabbah, M. M., Abou Adla, Y. A., Kasab, M. W., Al-Ghourabi, M. I., Diab, M. O., & Aloulou, N. J. (in press) (2020). Murine Atherosclerosis Detection Using Machine Learning Under Magnetic Resonance Imaging. *IECBES*.

Y. A. Abu Adla, D. G. Raydan, M. -Z. J. Charaf, R. A. Saad, J. Nasreddine and M. O. Diab, "Automated Detection of Polycystic Ovary Syndrome Using Machine Learning Techniques," 2021 Sixth International Conference on Advances in Biomedical Engineering (ICABME), 2021, pp. 208-212, doi: 10.1109/ICABME53305.2021.9604905.

Adla, Y. , Soubra, R. , Kasab, M. , Diab, M. , Chkeir, A. (2021). 'Automatic Classification of the Stand-to-Sit Phase in the TUG Test Using Machine Learning'. *World Academy of Science, Engineering and Technology, Open Science Index* 179, *International Journal of Computer and Information Engineering*, 15(11), 586 - 590.

## CONFERENCES

### 2020 IEEE EMBS Conference on Biomedical Engineering and Sciences (IECBES)

- Presented the work done in Rafik Hariri University regarding atherosclerosis

### 2021 Sixth International Conference on Advances in Biomedical Engineering (ICABME)

- Presented the work done in Rafik Hariri University regarding PCOS
- Won best paper award

### International Conference on Deep Learning and Machine Learning

- Presented the work done in UTT regarding TUG test
- Won best presentation award

## CONTACT INFO



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