



**1. Name and Academic rank:**

- Imane Haidar, Full-time Senior Lecturer, Electrical and Computer Engineering Department, Beirut Arab University.

**2. Education: Degrees, discipline, institution, and date:**

- Ph.D., Computer Engineering, BAU, 2017 - Present
- M.Sc., Computer Engineering, BAU, 2017
- B.Sc., Computer Engineering, BAU, 2015

**3. Academic experience**

- Beirut Arab University, 2022 – present, full time, Senior Lecturer
- Beirut Arab University, 2015 – 2021, part time, Lab Instructor and Lecturer

**4. Non-academic experience**

- Laptop Company – Lebanon - Internship, Hardware and software maintenance
- Aynacorp, 2014, Internship, working with the hardware team to create a NOLLO phone for elderly and children.

**5. Certification or professional Registration**

Course Certifications: Fundamental of Robotics, Advanced Robotics, Computer Vision, Deep Learning, AI and Medicine

**6. Current membership in professional organizations**

- Member in Order of Engineering Lebanon

**7. Honors and Awards:**

- Jamal Abd-Nasser Award for education excellence (50% scholarship for master)

**8. Service activities**

1. Create News Tech group for Computer Engineering students
  2. Supervise Game Development Club
  3. Member in the Quality Assurance committee
  4. Member in the ERASMUS+ committee
- Supervised many Senior projects (Domains: Blockchain, smart cities, Hospital Management, intelligent software development)
  - Advised Master Student for choosing research track
  - Participated in DeCAIR project where old courses were updated and new courses created.
  - Created a group for computer engineering students to share job opportunities and events
  - Cooperated with a hospital in France to do a customized software in CE.
  - Cooperated with a company in Emirates to co-supervise and sponsor 3 CE FYPs.
  - Attended 2 workshops related to IBDAAC competition held in AUB
  - Building a Professional CV Workshop given by Dr Hassan Baalbaki – LAU
  - BAU Meeting with CERN representative, MENA Mr Martin Gastal
  - Assigned as the coordinator of COMP208 course
  - Assigned as the Council Secretary for Electrical and Computer Engineering department.
  - Participated in a project with Biomedical Engineering (Low-cost Prosthetic Arm)
  - Geek Express: Company job fair for teaching programming for kids
  - Attended two Scientific Days with supervision of many FYP projects



## 9. Experience Courses (Graduate and Undergraduate)

Introduction to Robotics (Lecture), Programming 1 (Lecture & Lab), Transmission and Processing of Digital Signals (Lecture & Lab), Object Oriented Programming (Lecture & Lab), Programming 2 (Lecture & Lab), Web Programming (Lab), Cryptography and Information Security (Lecture & Lab), Queuing and modeling (Lecture and Lab), Computer Networks (Lab), Artificial Intelligence (Lab), Software Development (Lab), Data Structures (Lecture and Lab), Microprocessor Fundamentals (Lab), Advanced Microprocessor (Lab) CPU Design (Lab), Digital Systems (Lab), Computer Algorithms (Lab), Data Base Systems (Lab), Software Engineering (Lecture and Lab)

## 10. Research Interests

Cryptography and Artificial Intelligence

## 11. References:

- Prof. Ali Haidar [ari@bau.edu.lb](mailto:ari@bau.edu.lb) (+9613676121)
- Prof. Ziad Osman [z.osman@bau.edu.lb](mailto:z.osman@bau.edu.lb) (+9613836089)

## 12. Rank Link: Senior Lecturer

<https://www.bau.edu.lb/Staff/Engineering/Academic>

## 13. Publications

1. **Imane M. Haidar**, Layth Sliman, Issam W. Damaj, And Ali M. Haidar, High "Performance and Lightweight Single Semi-Lattice Algebraic Machine Learning", IEEE Access Journal, DOI: 10.1109/ACCESS.2024.3376525)
2. **Imane Haidar**, Layth Sliman, Issam Damaj, Ali Haidar, "Legacy Versus Algebraic Machine Learning a Comparative Study", 2nd International Congress of Electrical and Computer Engineering, Nov 2023, Turkey
3. Hiba Bazzi, Ali Nassar, **Imane Haidar**, Ali Haidar, Ziad Doughan, "ResNet-Based Detection of SYN Flood DDOS Attacks", 5th 2024 IEEE International Conference on Computing, Power and Communication Technologies (IC2PCT), 2023, Turkey
4. **Haidar, Imane**; Doughan, Ziad; and Haidar, Ali M. Prof. (2023) "A Novel Specialized Search Engine for AI-Models and Their Comparison," BAU Journal - Creative Sustainable Development: Vol. 4: Iss. 2, Article 2. DOI: <https://doi.org/10.54729/2789-8334.1099>
5. Amira J. Zaylaa\*, Mohamad Moumneh, Hamza Mrad, Mohamad Halawani, **Imane Haidar**, Ziad Doughan and Ali Haidar. Development of an Artificial Intelligence Based Design for a Bionic Prosthesis of a Human Hand. In Proc. 10th International Conference of the Arab Society for Computation in Architecture, Art and Design. October 12-14, (2022). (Accepted). (\*Main and Corresponding Author)
6. **Iman Haidar** and Ali HAIDAR "Axes-Based Key Cryptography", the Third IEEE International Conference on Electrical and Electronic Engineering, Telecommunication Engineering, and Mechatronics (IEEE-EEETEM 2017), 26 –28 April 2017, Beirut, Lebanon.



7. **Imane Haidar**, Ali Massoud Haidar, "Color-Based Key Encryption", 1st Student Innovation and Research Conference for Arab Universities and Schools (SIRCAUS -BAU) March 27-28, 2018, Beirut, Lebanon
8. **Iman Haidar** and Ali HAIDAR "Function\_Based Key Cryptography", the 23rd International Scientific Conference LAAS, 6 – 7 April 2017, Beirut, Lebanon
9. **Imane Haidar**, Ali M. Haidar and Ramzi A. Haraty, "Axes-Based Encryption Key," 2018 IEEE/ACS 15th International Conference on Computer Systems and Applications (AICCSA-Jordan), 2018, pp. 1- 8, doi: 10.1109/AICCSA.2018.8612814. Indexed by IEEE Xplore, DBLP, Scopus and ISI Web of Knowledge.
10. **Imane Haidar**, Ali Massoud Haidar and Ramzi A. Haraty. 2018. Scrambled prime key encryption. In Proceedings of the 10th International Conference on Management of Digital EcoSystems (MEDES '18-Japan). Association for Computing Machinery, New York, NY, USA, 94–99. DOI:<https://doi.org/10.1145/3281375.3281376>
11. **Imane Haidar** and Ali Haidar, "Color-Based Key Encryption", The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN 2017), September 2017, Lund, Sweden. Accepted for publication, withdrew.

#### **11. Professional development activities in the last years**

- Attended "AI and Medicine" course given by the University of Genova (Italy)
- DeCAIR Erasmus+: Attended "Deep Learning" course offered by University of Genoa
- DeCAIR Erasmus+: Attended "Computer Vision" course offered by University of Genoa
- Erasmus+, DECAIR, IEEE: Breaking the Laws of Robotics: Attacking Industrial Robots, by Dr. Stefano Zanero (Amman, Jordan) Attended Online
- Erasmus+, DECAIR: Modern Higher Education Teaching and Learning Methodologies
- Erasmus+, DECAIR: "Fundamental of Robotics" Training Course (20 hours)
- Erasmus+, DECAIR: Advanced Robotics (Italy, Piza)
- Erasmus+, ELEGANT: Enhancing Teaching, Learning and Graduate Employability through University- Enterprise Cooperation (BAU & MUBS) Attended Online (part1)
- Erasmus+, ELEGANT: Enhancing Teaching, Learning and Graduate Employability through University- Enterprise Cooperation (part2 day1-2)
- Erasmus+, ELEGANT: A Work-Ready Seminar Stand Out to Get Hired
- IEEE online meeting: Techniques for Effective Searching in IEEE Xplore
- ABET Meeting on Assessment with Dr Hadi Abou Chakra
- Attended the talk titled: Cybersecurity and Blockchain held in A3 and given by Prof. Layth Sliman from EFREI University France
- Huawei Technologies Workshop
- Attended Telecom Infrastructure workshop
- Attended "The World of Visual Effects and 3D Animation" Seminar

#### **Peer-reviewer:**

- ELSEVIER Journal, Applied Soft Computing Journal, IEEE Conference, Other Conferences