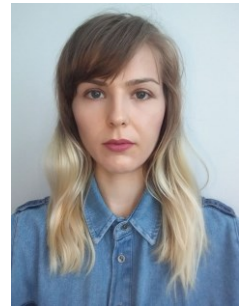




Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Adriana, MOLDER** (maiden name **MILĂȘAN**)
Address Șos. Chitilei, nr. 242D, Bloc C2, Et. 2, Ap. 62, Sector 1, Bucharest 021407, ROMANIA (EU)
Telephones n/a Mobile: +40 732 918 577
Fax n/a
Office e-Mail adriana.molder@mta.ro
Personal e-Mail adrimilasan@gmail.com
Web <https://erris.gov.ro/CERAS>
BrainMap ID U-1700-037V-8495
Nationality Romanian
Date of birth May 19, 1991
Gender Female
Civil status Married, 2 children
Occupational field Research and education

Work experience

Dates	2018 onwards
Occupation or position held	Senior Laboratory Officer (<i>Topic: Robotics and Autonomous Systems</i>)
Main activities and responsibilities	Management of scientific research Lecturer in image processing Equipment logistics and maintenance
Name and address of employer	Centre of Excellence in Robotics and Autonomous Systems Military Technical Academy, 39-49 George Coșbuc blvd., sector 5, Bucharest, Romania Phone.: +40 (0) 21 335 46 60, E-mail: relatii publice@mta.ro , Website: www.mta.ro
Type of business or sector	Research and education
Dates	2017 – 2018
Occupation or position held	Technical Officer (<i>Topic: Robotics and Autonomous Systems</i>)
Main activities and responsibilities	Scientific research in medical image processing High-level programming Lecturer in image processing
Name and address of employer	Centre of Excellence in Robotics and Autonomous Systems Military Technical Academy, 39-49 George Coșbuc blvd., sector 5, Bucharest, Romania Phone.: +40 (0) 21 335 46 60, E-mail: relatii publice@mta.ro , Website: www.mta.ro
Type of business or sector	Research and education

Dates	2016 – 2017
Occupation or position held	PhD Student Officer (<i>Topic: Medical Image Processing</i>)
Main activities and responsibilities	Scientific research in medical image processing High-level programming Lecturer in image processing
Name and address of employer	Military Technical Academy Doctoral School, Military Technical Academy, 39-49 George Coşbuc blvd., sector 5, Bucharest, Romania Phone.: +40 (0) 21 335 46 60, E-mail: relatii.publice@mta.ro, Website: www.mta.ro
Type of business or sector	Research and education
Dates	2014 - 2016
Occupation or position held	Acquisition technical officer
Main activities and responsibilities	Market prospecting, negotiations, contract management, logistics
Name and address of employer	Military Central Hospital “Carol Davila”, 134 Calea Plevnei str., sector 1, Bucharest 010825, Romania Phone.: +40 (0) 21 319 30 51, E-mail: secretariat@scumc.ro, Website: www.scumc.ro
Type of business or sector	Acquisitions
Education and training	
Dates	December 2018 – January 2019
Title of qualification awarded	Graduation certificate – Psycho-pedagogy (level 2) , graduated as valedictorian
Principal subjects/occupational skills covered	- pedagogy, didactics, educational techniques, scholar psychology
Name and type of organisation providing education and training	National Defense University “Carol I”, Bucharest, Romania
Level in international classification	ISCED level 6
Dates	February 2018 – July 2018
Title of qualification awarded	Graduation certificate – Psycho-pedagogy (level 1) , graduated as valedictorian
Principal subjects/occupational skills covered	- pedagogy, didactics, educational techniques, scholar psychology
Name and type of organisation providing education and training	National Defense University “Carol I”, Bucharest, Romania
Level in international classification	ISCED level 6
Dates	September 2018
Title of qualification awarded	FANUC industrial robot operator and programmer certification
Principal skills covered	- robot safety, industrial robot programming, robot programming languages, robot application design
Name and type of organisation providing education and training	FANUC Robotics, Hungary
Level in international classification	ISCED level 6
Dates	October 2016 onwards
Title of qualification awarded	PhD Student (<i>Scientific domain: engineering, Scientific field: electronic engineering and telecommunications</i>)
Principal subjects/occupational skills covered	- digital image processing - pattern recognition - artificial intelligence - advanced medical image processing - high-level programming
Name and type of organisation providing education and training	Military Technical Academy “Ferdinand I” – Doctoral School University of Medicine and Pharmacology “Carol Davila” Bucharest – Doctoral School
Level in international classification	ISCED level 6
Dates	January 2015
Title of qualification awarded	3D Robotic Swarm Models for Visionair Integration (TNA Research Grant)

Principal topics covered - virtual reality, computer graphics, robot swarm
 Name and type of organisation providing education and training 3DICC Laboratory, MTA Sztaki, Budapest, Hungary
 Level in international classification ISCED level 6

Dates October 2014 - March 2016

Title of qualification awarded **Master of science in robotics**, graduated as valedictorian

Principal subjects/ occupational skills covered - Robotics, Embedded Systems
 - Computer Vision

Name and type of organisation providing education and training Faculty of Electronics and Computer Science,
 Military Technical Academy, 39-49 George Coşbuc blvd., sector 5, Bucharest, Romania
 Phone.: +40 (0) 21 335 46 60, E-mail: relatii publice@mta.ro, Website: www.mta.ro

Level in international classification ISCED level 6

Dates 01 October 2010 - 24 July 2014

Title of qualification awarded **Communications engineer, 1st lieutenant**, graduated as valedictorian

Principal subjects/ occupational skills covered - Electronic circuits
 - Integrated circuits
 - Computer Architectures
 - Embedded Systems
 - Robotics

Name and type of organisation providing education and training Military Technical Academy, Bucharest
 Communications and Military Electronic Systems Dept.
 39-49 George Coşbuc street, 050141 Bucharest (Romania)

Level in international classification ISCED level 5

Dates 2006 – 2010

Title of qualification awarded **Baccalaureate diploma**, graduated as valedictorian
 Specialty: mathematics and physics

Principal skills covered - mathematics, physics, IT

Name and type of organisation providing education and training "Mihai Viteazul" Military High School, Alba Iulia, Romania

Level in international classification ISCED level 3

Personal skills and competences

Native language **Romanian**

Other language(s)

Self-assessment

European level

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Proficient user	B2	Proficient user	B2	Proficient user	B2	Proficient user	B2	Proficient user

Social skills and competences - Team building skills
 - Good communication skills
 - Highly communicative, sociable

Organisational skills and competences - Organized and rigorous: working in the army since 2006, during studies and onwards
 - High analysis and synthesis skills
 - Team leading skills

Technical skills and competences - Algorithm design in image processing, pattern recognition, computer vision, AI
 - Design, simulation, and building of embedded systems
 - Operation and programming of robot systems

- | | |
|---------------------------------|--|
| Computer skills and competences | <ul style="list-style-type: none"> - Proficient in Microsoft Windows operating systems and Microsoft Office applications - Proficient in LaTeX text editing - Proficient in design and simulation of electronic circuits in Proteus - Proficient in programming high level applications in MATLAB - Proficient in creating computer graphics applications in C and OpenGL - Proficient in Microsoft Internet Explorer, Mozilla Firefox and Google Chrome |
| Artistic skills and competences | <ul style="list-style-type: none"> - Painting, handcrafting, design |
| Other skills and competences | <ul style="list-style-type: none"> - Member of the Faculty Council of Military Electronic and Computer Systems - Member of the University Senate of the Military Technical Academy - Member of the university robotics club |

Driving licence B

Additional information

- April 2014 – 1st Prize at the Robotics & Automation Student Design Contest, Bucharest, ROMANIA
- May 2014 – 1st Prize at the CERC 2014 Student Communication Session, Military Technical Academy, Bucharest, ROMANIA
- May 2014 – Finalist at Diligent Design Contest, EU Region, Cluj-Napoca, ROMANIA
- July 2010 – Excellence diploma from “Ștefan Gușă” foundation for valedictorian graduation of the “Mihai Viteazul” military high school
- 2013 – Member of the Robotics Club at the Military Technical Academy
- 2012 – Student member of the jury, CERC 2012 Student Communications Session, Communications
- 2013 – Student member of the jury, CERC 2013 Student Communications Session, Robotics and Automation
- 2014 – Student member of the jury, CERC 2014 Student Communications Session, Robotics and Automation

Annexes

1. List of works

List of Works

A. Journals:

1. **Molder A.**, Balaban D.V., Molder C., Jinga M., Robin A., *Computer-Based Diagnosis of Celiac Disease by Quantitative Processing of Duodenal Endoscopy Images*, *Diagnostics* 13(17), 2023, Special Issue on Artificial Intelligence in Clinical Medical Imaging Analysis, WOS: 001060553100001
2. **Molder A.**, Balaban D.V., Jinga M., Molder C., *Current Evidence on Computer-Aided Diagnosis of Celiac Disease: Systematic Review*, *Frontiers in Pharmacology* 11:341, 2020, WOS:000530474600001
3. Dumitrescu, S.I., **Molder, A.**, Molder, C., *et al*, *P832 ESCAPE Stroke: first results*, *European Heart Journal Cardiovascular Imaging* 21
4. **Milășan, A.**, Molder, C., Dumitrescu, S., *A Comparative Study of Digital Filtering Techniques in Ultrasound and Carotid Bifurcation Atherosclerosis*, *Journal of Military Technology*, Vol. 1, No. 1, pp. 5-12, Jun. 2018, ISSN: 2601-6613
5. **Milășan, A.**, Molder, C., *Least Squares Estimation of Round Convex Mirror Image Distortion for Indoor Localization in Robot Swarms*, *MTA Review*, Vol. XXVI, No. 1, pp. 27-38, Mar. 2016, ISSN: 1843-3391
6. **Milășan, A.**, Băbuș, B., Frîncu, A., Gheorghe, A., Molder, C., *NEXUS: A Research Platform for Robot Swarms*, *MTA Review*, vol. XXV, no. 1, March 2015, pp. 17-30, ISSN: 1843-3391.

B. Conferences:

1. Grigore, L, Gorgoteanu, D., Molder, C., Amado, Șt., Constantin, D., **Molder, A.**, *Considerations on the characteristic of electric traction motors of an EOD robot*, 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), DOI: 10.1109/ECAI52376.2021.9515037.
2. **Molder, A.**, Molder, C., Vizitiu, C.-I., Mischianu, D., Dumitrescu, S., *Stroke Risk Assessment Using Atheroma Plaque Surface Features Evaluation*, 2020 13th International Conference on Communications (COMM), DOI: 10.1109/COMM48946.2020.9142016.
3. **Molder, A.**, Molder, C., Vizitiu, C.-I., Dumitrescu, S., *Characterization of Atheroma Plaques Echogenicity and Texture for Computer- Aided Diagnosis in Cardiovascular Diseases*, 2020 13th International Conference on Communications (COMM), DOI: 10.1109/COMM48946.2020.9142032.

C. Posters:

1. **Milășan A. et al.**, *Enhancement, segmentation and characterization of atheroma plaque for stroke prevention*, Poster P365, 22nd Annual Congress of the European Association of Cardiovascular Imaging (EACVI), a branch of the ESC, 5-8 December 2018, Milan, Italy.
2. **Milășan A. et al.**, *ESCAPE Stroke: first results*, Poster 832, 23rd Annual Congress of the European Association of Cardiovascular Imaging (EACVI), a branch of the ESC, 4-7 December 2019, Vienna, Austria.

D. Research projects:

1. *Creșterea performanței instituționale și a competențelor CDI în domeniul Sănătate ale Universității de Medicină și Farmacie "Carol Davila" București*, Contract PFE23/2018, Grant intern GI-CEX-UMFCD-SAN-CDCP-02, **membru în proiect**, 2019
2. *Platformă de fuziune și management a colecțiilor de date multi-sursă exploatabile de către modele cu inteligență artificială pentru estimarea și analiza predictivă a situațiilor de risc*, Proiect Soluții SOL-3/2024 în PN4, **membru în proiect**, 2024-2026
3. *Digital Processing Algorithms for Improving the Quality of Medical Images*, National Defense Research Contract, 2017-2019, **PROJECT MANAGER**.
4. *Drone Network for Search and Rescue (DEFEND)*, PNCDI III, Program 2, Subprogram 2.1 – PED 2016, I.C.P.E. S.A., National Research Program, 2017-2018, **TEAM MEMBER** (475.000 RON).

E. Research reports:

1. **A. Milășan**, *A comparative study of digital standard techniques of medical image processing*, Military Technical Academy, Bucharest, Romania, 2018.
2. **A. Milășan**, *Digital processing algorithms for improving the quality of medical images*, Military Technical Academy, Bucharest, Romania, 2017.
3. **A. Milășan**, *Digital image processing algorithms applied in robotics*, Military Technical Academy, Bucharest, Romania, 2016.
4. **A. Milășan**, *Cooperation techniques in robot swarm systems*, Military Technical Academy, Bucharest, Romania, 2014.