# MOBINA KEYMASI

I have extensive experience in remote sensing, radar imaging, and Artificial Intelligence, where I've refined skills in advanced algorithm development and imaging techniques. My work includes collaborative research with top European institutions, contributing to cutting-edge innovations in Machine Learning and image analysis. I am passionate about applying my expertise in AI and radar imaging to tackle complex challenges and make a real difference in the field.

CONTACT

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https://www.linkedin.com/in/mobina-keymasi

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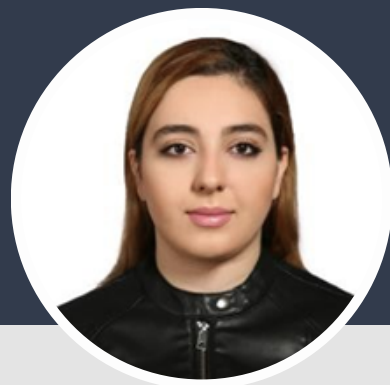
RESERCH INTERESTS

- Artificial Intelligence
- Machine Learning
- Image Processing
- Radar Imaging
- Computer Vision
- Deep Learning

SOFTWARE SKILLS

- Matlab
- Python
- C++
- Microsoft office
- QGIS
- GEE
- SNAP

OTHER SKILLS

- Team- working Spirit
- Multi-tasking
- problem Solving
- Responsible and Reliable
- Leadership and Management
- Communicative
- Motivated and Determined
- Self_ learner
- Adaptive and Flexible

EDUCATION

PhD in Electrical Engineering and Telecommunications   2021 - 2024
Politehnica University of Bucharest
PhD Thesis Title: Goal-directed compressive radar imaging
Buchrest, Romania

Master of Science in Biomedical Engineering   2017 - 2019
Sepahan Science and Technology Institute of Higher Education Unit
Master Thesis Title: Granger Causality Modeling of Time series Extracted from fMRI Images for Brain Connectivity Evaluation in Patients with Alzheimer's diseas
Isfahan, Iran

Bachelor of Science in Biomedical Engineering   2013 - 2017
Islamic Azad University of Tehran Medical Unit (IAUTMU)
Master Thesis Title: The Mechanism of Peptide Base Hydrogel Behavior in Fast Homeostasis
Tehran, Iran

WORK EXPERIENCE

Research Assistant   2021 - 2024
University Politehnica of Bucharest | Research Center for Spatial Information (CEOSpaceTech)| Bucharest, Romania
Project Title: Marie Skłodowska-Curie Innovative Training Network (ITN)| MENELAOS-NT

- Developed and implemented advanced algorithms for compressive radar imaging, enhancing resolution and target detection.
- Collaborated with a multidisciplinary team to integrate spatial information and radar systems, contributing to innovative real-world solutions.
- Conducted research on goal-directed imaging techniques, improving accuracy and efficiency; presented findings at conferences.

Visiting Researcher   MAY 2023 - JUN 2023
The Public University of Navarre | (Department of Electrical Electronic and Communications Engineering) | Pamplona, Spain
Project Title: ExperimentalVerification of Goal-directed Compressive Sensing algorithms

- Conducted experimental verification of goal-directed compressive sensing algorithms, validating their effectiveness in real-world scenarios.

Visiting Researcher   JUL 2021 - DEC 2022
University of Siegen | Zess (Center for Sensor Systems) | Siegen, Germany
Project Title: Compressive Radar Sensing and Compressive Radar Imaging

- Conducted research on compressive radar sensing and imaging, developing innovative techniques to improve data acquisition and processing.
- Collaborated with experts at the Center for Sensor Systems (Zess) to enhance radar capabilities through advanced algorithm design.

Accountant Assistant   2013 - 2022
Private Company | Tehran, Iran
- Handled financial transactions, including invoicing, payments, and account reconciliation.
- Assisted in preparing financial reports and budgets to support decision-making.
- Maintained organized records and streamlined accounting procedures.

Medical Engineer (Internship)   OCT 2016 - FEB 2016
Atieh Hospital | Tehran, Iran
- Assisted in maintaining and calibrating medical equipment to ensure efficient operation.
- Supported inventory management and collaborated on troubleshooting equipment issues.

HONORS AND AWARDS

Third Prize Young Scientist at "ADVANCED TOPICS IN OPTOELECTRONICS MICROELECTRONICS AND NANOTECHNOLOGIES" ATOM-N 2022 With paper: Classification of Danube Delta Boundaries by Using Machine Learning Algorithms on Co-registered Sentinel-1 and Optical Images

Fully funded Marie Curie (EU H2020) PhD Fellow

First ranked in RoboCup, 2009 National Competition

Accepted in Math Olympiads

PUBLICATIONS

Mobina Keymasi, Virendra Mishra, Sina Aslan, Morteza Modarresi, "Theoretical Assessment of Cervical Cancer Using Machine Algorithm MethodsBased on Pap-Smear Test" IEEE IEMCON, 2018.

Mobina Keymasi, Omid Ghozatlou, Andrei Anghel, Mihai Datcu, "Classification of Danube Delta Boundaries by Using MachineLearning Algorithms on Co-registered Sentinel-1 and Optical Images" ATOM-N, 2022.

Mobina Keymasi, Omid Ghozatlou, Miguel Heredia Conde, Mihai Datcu, "An Efficient Compressive Learning Method on Earth Observation Data" IGARSS conference, Pasadena, California, 2023.

Mobina Keymasi, Mihai Datcu, "Analyzing Temporal Changes in the Danube Delta: A Time Series Study with Co-registered Sentinel-1 and Sentinel-2 Data" accepted at ATOMS 2024 conference, Bucharest, Romania.

Mobina Keymasi, Mihai Datcu, "Goal-Oriented Semantic Modules for SAR Ship Detection" accepted at CoSeRa 2024 conference, Santiago de Compostela, Spain.

Mobina Keymasi, Omid Ghozatlou, Emmanuel Adueze Weridongha, Mihai Datcu, "Hybrid GAN and Fourier Transformation for SAR Ocean Pattern Image Augmentation" accepted at IEEE MetroSea 2024, Portorož, Slovenia.

Mobina Keymasi, Omid Ghozatlou, Miguel Heredia Conde, Mihai Datcu, working on a journal paper titled "Compressive SAR Learning".