

# □ CHIVINTAR AMENTY – CURRICULUM VITAE

## EDUCATION

- Jul 2025      **School of Electrical and Computer Engineering – Technical University of Crete**  
MSc, Data Science and Machine Learning  
Grade: 8.56/10 (*Excellent*)
- Jul 2023      **Department of Physics – University of Crete, Greece**  
BSc, Physics  
Grade: 6.68/10 (*Very Good*)
- Jun 2013      **High School of Kissamos, Chania, Greece**  
Grade: 18.1/20 (*Excellent*)

## SELECTED PROJECTS

- Jul 2025      **Causal Inference & Network Discovery in Complex Time Series Data** 🔗  
Multivariate time series, Liang-Kleeman Information Flow, Statistical Testing
- Jun 2025      **Reducing Opinion Polarization Over a Social Network** 🔗  
Graph Networks, MDPs, Deep-Q Network
- May 2025      **Sleep Stage Analysis on Electroencephalography (EEG) Data** 🔗  
Sleep Classification, Gaussian Mixture Models, classic ML algorithms

## RESEARCH EXPERIENCE

- Aug-Nov 2025      **Spectroscopy Methods & Data Analysis on Tree Seeds**, *Faculty of Science, Forestry and Technology, University of Eastern Finland*. Time Domain Spectroscopy, Hyperspectral imaging analysis, ML methods, Lab assistant
- Jul-Sep 2024      **Graphene Mapping & Lithography**, *Dept. of Physics and Mathematics, University of Eastern Finland*. Raman Spectroscopy, Electron beam lithography
- Oct-Dec 2023      **DAC Prototype Design**, *CHREA, CNRS Nice, France*. Evaluation board, ECE Software
- Jan-Mar 2023      **Graphene Chip Characterization**, *Dept. of Physics and Mathematics, University of Eastern Finland*. Probe station, TDS, THz applications
- Jul-Sep 2022      **NO<sub>2</sub> Satellite Observations**, *Institute of Environmental Physics, University of Bremen, Germany*. TROPOMI Instrument on Sentinel-5P
- Feb-May 2022      **Urban CO<sub>2</sub> Emissions Analysis**, *IACM-FORTH, Greece*. Eddy Covariance Method.
- May-Sep 2018      **Chiral Polarimeter Development**, *IESL-FORTH, Greece*. Solenoid building and water-cooling system for scientific apparatus.

## SPECIALIZED TRAINING

Jul 2025	Neural Network Compression. <i>TUC ECE Summer School, Chania</i>
Jun 2024	Multiple Point Statistics in Python. <i>GeoENV2024, Chania</i>
Nov 2023	Networking and TCP/IP Fundamentals. <i>EMiT Feltrinelli</i>
Mar 2023	Clean Room Fundamentals. <i>UEF, Joensuu</i>
Jul 2022	Karst Modeling Geological Fieldtrip. <i>Technical University of Crete</i>
Apr 2022	MAELSTROM & ML Workshop. <i>ECMWF (Online)</i>
Dec 2021	Atmospheric Composition Training. <i>ECMWF, EUMETSAT, ESA (Online)</i>
Dec 2021	Remote Sensing Workshop. <i>EUMETSAT (Online)</i>
Oct 2018	FOSSCOMM Organizer. <i>University of Crete</i>
Apr 2016	FOSSCOMM Participant. <i>University of Piraeus</i>

## WORK EXPERIENCE

Dec 2022– Oct 2024	<b>R&amp;D Technician &amp; Project Manager</b> , <i>CommonsLab Makerspace, Heraklion, Greece</i> . Proposal writing (multiple awarded, including two large scale projects), Microelectronics, MCSA Staff Exchange.
Jul-Oct 2022	<b>Erasmus+ Intern</b> , <i>Institute of Environmental Physics, Bremen, Germany</i>
May-Sep 2018	<b>Intern</b> , <i>CommonsLab Makerspace, Heraklion, Greece</i>
Jun 2016	<b>Receptionist &amp; IT Services</b> , <i>Stylianos Hostel Rooms, Kissamos, Greece</i>
2015-2022	<b>Private Tutor</b> , <i>Self-employed</i> . Math and Physics, all school levels
Jun 2013	<b>Secretary &amp; IT Services</b> , <i>Rasint Amenty Dental Office, Kissamos, Crete</i>

## AWARDS

Jul 2018	TAPAS SDI Community Challenge Finalist, CKI 2018, <i>Friedrich-Alexander-Universität</i> .
----------	--

## SKILLS

Languages	Greek (native), Kurdish (mother tongue), English (C2)
Programming	Python, TeX, Unix/Linux environments, SQL, MATLAB, R, HTML
Scientific tools	Git, RStudio, DuckDB, Matlab, SNAP (ESA), C3S, CAMS, CAD, LabView, Autodesk, Google Earth Engine
Media tools	Audio/Video/Image Processing, GIMP, Kdenlive, Ableton, MPC, Blender, Audacity
Organizational	Conference and event organization, project management, exhibition events
Music	Classical guitar, electric bass, drums, keyboard <input type="checkbox"/>