PERSONAL DETAILS

Name: Markela Giannousopoulou
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EDUCATION

2022- Present   **European Security and Defense College**

- Accepted at the European Security and Defense College that offers collaborated training with the European Union Institute for Security Studies. The college provides specialized training and education in the field of the Union's Common Security and Defence Policy (CSDP) in the wider context of the Common Foreign and Security Policy (CFSP) within the European Union. Successful completion of specialized training in the following fields:
- *The European Union Global Strategy.* Preparatory education on the history and context of the European foreign policy and strategy. Study of Historical/geopolitical context and analysis of the evolution of the European foreign policy cooperation. Placed emphasis on the contributions made by principal European treaties up to this date.
- *Common Security and Defense Policy.* Study of the early and late post World War II initiatives, aiming to strengthen the European cooperation. Education on all the important council meetings and treaties that have formulated the modern European Security and Defence policies in a wide variety of subjects.
- *Climate Change Security.* Analysis of the security implications of climate change, as well as implications within the military. Specified training on how to mitigate probable threats, such as economic damage, extreme weather events, conflict over resources and territory dispute.
- *Cyber Security and Diplomacy.* Introduction in basic cybersecurity concepts. Knowledge of the current threat landscape in cyberspace. Education around the tactics of resilience and recovery against an attack. Analysis of Confidence Security measures and established Cyber Norms. The training concluded with specified diplomatic education and the processes needed to establish the appropriate security principles worldwide.
- *Gender and the UNSCR 1325 women, peace and security agenda.* Introduction to key conceptual and policy frameworks. Elimination of gender–based and sexual violence during conflict. Preparatory analysis of women's participation and gender, mainstreaming in military missions and operations.
- *Gender aspects in missions and operations.* Study of the United Nations Security Council Resolutions on Women, Peace and Security. Education on the CSDP, NATO and UN directives and guidelines on gender in operations. The training concluded with analysis of the link between conflict–related sexual violence and protection of civilians.

September 2022	**IS-ENES3 Summer School on Data Science for Climate Modelling**

- Theoretical and practical concepts of Data Science, mainly targeting how to accelerate scientific discovery from data.
- Analysis and visualization on massive meteorological datasets.
- Data-intensive and data-oriented paradigms and solutions to address scientific discovery in climate science.
- Machine learning and AI workshops related to meteorological forecasting in climate change.

2020- Present	**PhD candidate at University of the Aegean**

- Development of PhD thesis referring to marine safe shipping and environmental accident prevention within the Greek seas, in collaboration with the National Centre for Scientific Research "Demokritos", the University of Aegean and the National Technical University of Athens.
- Scholarship by NCSR "Demokritos" to attend the 11th Hellenic Conference on Artificial Intelligence (SETN 2020). Organized by the Hellenic Artificial Intelligence Society.

2016-2019	**Integrated Master in collaboration with NCSR Demokritos**

- Research interests: Data analysis, ship safety, oil spill damage control, machine learning, and risk assessment modeling.
- Based on courses: System design, System reliability, Decision Analysis and Knowledge Engineering, Data analysis, Probability models, Statistics, Matlab
- Thesis: *Development of fuzzy logic model for environmentally safe shipping at Greek territorial waters.*
  Supervisors: Platis Agapios & Nivolianiti Zoe

2014-2016	**Internship at National Centre for Scientific Research "Demokritos"**

- Participation at 2nd Hellenic Forum For Science, Technology and Innovation. Workshops and training around Big Data, biohazards, innovation and better understanding of the link between research, government and industry.
- Participation at NCSR Summer School. Training under the areas of environmental safety and energy, advanced materials, micro-nanotechnology, basic research on all basic sciences, Computer informatics and data analysis.

2010-2014	**Bachelor's Degree in Financial Management and Engineering, University of Aegean, Department of Financial and Management Engineering**

- 45 courses in Engineering, Mathematics, Economics, Computer programming.

WORK EXPERIENCE

2017 - Present	**Engineer consulting to various private companies.**

- Analysis of business landscape.
- Research and data gathering for management platforms.
- Assistance with the development of management and finance reports.

2016 - Present	**Collaborative researcher at NCSR "Demokritos" with GreenTech expertise.**

2015-2016	**Maintenance of e-shop platform for construction materials company**

- Data entry
- Keeping track of rival company's prices
- Evaluating best price and offer for each product.

2014-2016	**Research Internship at NCSR Demokritos**

- Research on safe shipping and impact of oil spills
- Experimental design, data analysis
- Bayesian and Fuzzy Logic
- System reliability

2012-2014	**Teaching Theoretical music to beginners**

2011-2014	**Violin tutor**

COMPUTER SKILLS

- Data/statistical analysis programs: SPSS, R Studio
- C language
- C++ language
- SQL
- Matlab

LANGUAGES

- Greek   Native
- English   Excellent knowledge
- French   Basic knowledge

OTHER KNOWLEDGE

- Basic knowledge of Python (Harvard University CS50's Introduction to Programming with Python)
- Basic knowledge of Html 5
- Medals won on sports: Swimming. Basketball. Shot put.
- Violin playing
- Piano playing
- Theoretical music and Harmony proficiency
- Choir and orchestra director