



# Anastasia Anastasiadou

Bioinformatician, Institute of Applied Biosciences (INAB) | Centre for Research & Technology, Hellas (CERTH)

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 Thessaloniki, Greece

## Education

- 2021 - 2023, M.Sc. in **Translational Research in Biomedicine**, Molecular Biology & Genetics Department, Democritus University of Thrace, Alexandroupoli, Greece.  
**Thesis:** “Characterization of *TP53* gene mutations in patients with Chronic Lymphocytic Leukemia”.
- 2016 - 2021, B.Sc. in **Biochemistry & Biotechnology**, Biochemistry & Biotechnology Department, University of Thessaly, Larisa, Greece.  
**Thesis:** “Study of genetic variations on patients with hematological malignancies”.

## Work Experience

- 11/2023 - present, **Bioinformatics Scientist**, Bioinformatics Lab, (INAB | CERTH).
- 10/2021 - 10/2023, **Master Student**, Immunogenetics Lab, (INAB | CERTH).
- 03/2020 - 09/2021, **Undergraduate Student**, Immunogenetics Lab, (INAB | CERTH).
- 07/2019 - 08/2019, **Internship**, Immunogenetics Lab, (INAB | CERTH).

## Scholarship

- 10/2021 – 10/2023, Received a scholarship from the INAB | CERTH to support my Master’s research.

## Participation in Funded Projects

- 05/2024 – present, Odyssey — Connecting molecular and geographical biodiversity data (ELIXIR BFSP commissioned service, part of the 2024-2028 Biodiversity, Food Security & Pathogens Programme)
- 03/2024 – Present, ELIXIR-STEERS — Developing, consolidating and optimising ELIXIR as an European research infrastructure (HORIZON-INFRA-2023-DEV-01)
- 09/2023 – 05/2024, SciLake — Algorithms for large-scale biodata analysis (HORIZON-INFRA-2021-EOSC-01-04)

## Skills Developed Through Work and Research Experience

Bioinformatics

R programming

Python

Linux

HTML

Data Visualization

Data Analysis

RNAseq

NGS

WES

Variant calling

Research skills

Presentation skills

Communication skills

Multitasking



## Conference Activity

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### Poster

- N. Pechlivanis, **A. Anastasiadou**, A. Papageorgiou , E. Pafilis , and F. Psomopoulos, “Odyssey: an R Shiny App Approach to explore Molecular Biodiversity in Greece, 23rd European Conference on Computational Biology (ECCB)”, Sep. 2024, doi: <https://doi.org/10.5281/zenodo.14186453>
- S.-C. Fragkouli, N. Pechlivanis, **A. Anastasiadou**, G. Karakatsoulis, A. Orfanou, P. Kollia, A. Agathangelidis, and F. E. Psomopoulos, “Synth4bench: generating synthetic genomics data for the evaluation of somatic variant callers, 23rd European Conference on Computational Biology (ECCB)”, Sep. 2024, doi: <https://doi.org/10.5281/zenodo.14186510>.
- G. Gkoliou, N. Pechlivanis, S. Chatzileontiadou, C. Frouzaki, G. Karakatsoulis, **A. Anastasiadou**, E. Vlachonikola, M. Gerousi, F. Psomopoulos, M. Papaioannou, K. Chlichlia, K. Stamatopoulos, E. Hatjiharissi, A. Chatzidimitriou, “Distinct Immunophenotype and Gene Expression Profiles of T cells In Peripheral Blood Versus Bone Marrow of Patients with Multiple Myeloma, 29th European Hematology Association Congress (EHA)”, June 2024.
- S.-C. Fragkouli, N. Pechlivanis, A. Orfanou, A. Anastasiadou, A. Agathangelidis, and F. Psomopoulos, “Synth4bench: a framework for generating synthetic genomics data for the evaluation of somatic variant calling algorithms, 17th Conference of Hellenic Society for Computational Biology and Bioinformatics (HSCBB),” Oct. 2023, doi: <https://doi.org/10.5281/zenodo.8432060>.

### Other

- S.-C. Fragkouli, N. Pechlivanis, **A. Anastasiadou**, G. Karakatsoulis, A. Orfanou, P. Kollia, A. Agathangelidis, and F. E. Psomopoulos, “Exploring Somatic Variant Callers’ Behavior: A Synthetic Genomics Feature Space Approach.” ELIXIR All Hands Meeting, Jun. 2024, doi: <https://doi.org/10.7490/f1000research.1119793.1>.
- S.-C. Fragkouli, N. Pechlivanis, **A. Anastasiadou**, G. Karakatsoulis, A. Orfanou, P. Kollia, A. Agathangelidis, and F. E. Psomopoulos, “Synth4bench: a framework for generating synthetic genomics data for the evaluation of tumor-only somatic variant calling algorithms.” 2024, doi: <https://doi.org/10.1101/2024.03.07.582313>.

## Academic Services

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Participation in the organising committee of:

- ML4NGP - 2nd ML4NGP MEETING on Machine Learning and Non-globular proteins, Thessaloniki, Greece, 14-17/05/2024.
- EOSC-EVERSE Kick-off meeting, Thessaloniki, Greece, 11-15/03/2024.
- 17th Conference of the Hellenic Society for Computational Biology and Bioinformatics (HSCBB23), Thessaloniki, Greece, 10-12/10/23.

**Languages**

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- English: - NYLC – New York Language Center Certificate, Level C2
- German: - Zertifikat B1, Goethe Institut.

**Professional Development**

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Course Certificates

- Python for Data Science and Machine Learning (Udemy)
- R programming A-Z: R for Data Science With Real Exercises (Udemy)
- Python for Beginners – Learn Programming from scratch (Udemy)
- Introduction to Generative AI (Google Cloud Skills Boost)
- Introduction to Large Language Models (Google Cloud Skills Boost)

**Interests**

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Climbing

Hiking

Running

Handball player