



Anastasia (Natasa) Anastasiadou

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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”.
Supervisor: [Dr. Anastasia Chatzidimitriou](#)
- 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”.
Supervisor: [Dr. Kostas Stamatopoulos](#)

Work Experience

- 11/2023 – present, **Bioinformatics Scientist**, Bioinformatics Lab, (INAB | CERTH)
Supervisor: [Dr. Fotis Psomopoulos](#)
 - Participated in the organization and delivery of data analysis activities for funded research projects.
 - Designed, optimized, and deployed bioinformatics workflows for genomics, transcriptomics and biodiversity
- 10/2021 – 10/2023, **Master Student**, Immunogenetics Lab, (INAB | CERTH)
 - Conducted wet lab experiments and NGS workflows for research on hematological malignancies.
 - Performed bioinformatics analysis of sequencing data, integrating variant and gene-level insights.
- 03/2020 – 09/2021, **Undergraduate Student**, Immunogenetics Lab, (INAB | CERTH)
 - Assisted in basic laboratory procedures and introductory bioinformatics tasks for research projects.
- 07/2019 – 08/2019, **Internship**, Immunogenetics Lab, (INAB | CERTH)
 - Gained experience in fundamental molecular biology techniques and laboratory practices.

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)
- 09/2023 – 05/2024, [SciLake](#) — Algorithms for large-scale biodata analysis (HORIZON-INFRA-2021-EOSC-01-04)
- 03/2024 – Present, [ELIXIR STEERS](#), Developing, consolidating and optimising ELIXIR as an European research infrastructure (HORIZON INFRA 2023 DEV 01)

Community & Open-Source Contributions

- **Immunovisual**: Interactive gallery of Immunogenetics charts built with R ([Quarto webpage](#))
- **TidyTuesday**: Data visualization contributions ([GitHub](#) | [Shiny App](#))
- **30DayChartChallenge**: Data visualization contributions ([GitHub](#) | [Quarto webpage](#))

Technical skill

- **Languages:** R, Python, Bash, HTML, CSS
- **Data Science:** ggplot2, Quarto, R shiny, data.table, tidyverse
- **Bioinformatics Tools:** HISAT, STAR, SAMTOOLS, GATK, TrimGalore, DESeq2
- **Workflows:** Nextflow
- **Version Control & Deployment:** Git, GitHub

Selected Publications

- F. Psomopoulos, C. O’Cathail, **N. Anastasiadou**, C. Cocuzza, W. L. Cuypers, O. Idowu, K. Kyritsis, K. B. Lauer, M. Lavitrano, G. Leoni, J.-L. Liu, G. Macori, G. Mannarà, M. Martinelli, N. Pechlivanis, et. all, “Toward a unified approach: Considerations for bioinformatic and sequencing activities & data in wastewater surveillance of biologic public health threats,” Open Research Europe, vol. 5, p. 267, Sep. 2025, doi: [10.12688/openreseurope.20934.1](https://doi.org/10.12688/openreseurope.20934.1).

Selected Conference Activity

Poster

- M. Gerousi, M. Fitopoulou, N. Pechlivanis, **A. Anastasiadou**, P. Rock, G. Karakatsoulis, M. Smaropoulou, P. Talimtzi, C. C. Chu, C. Zent, R. Burack, E. Theodosiou, F. Psomopoulos, A. Chatzidimitriou, K. Stamatopoulos, “Molecular and Cellular Responses to External Triggering in Primary Splenic Small B-Cell Lymphomas: A Transcriptomic and Bioenergetic Perspective, 30th European Hematology Association Congress (EHA)”, June 2025, PF1011.
- 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>

Academic Services

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.

Professional Development

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)

Languages

- English: Full professional proficiency (C2, NYLC Certificate)
- German: Intermediate proficiency (B1, Goethe Institut)
- Greek: Native proficiency