



# Anastasia (**Natasa**) Anastasiadou

Bioinformatician | Computational Biologist

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## About

Bioinformatics Scientist with experience in analyzing and visualizing Next Generation Sequencing (NGS) data. Strong background in translational biomedical research, with a focus on extracting meaningful biological insights from complex datasets. Experienced in developing interactive web applications, apps and tools that enhance data exploration and accessibility for researchers.

## Education

- **M.Sc. in Translational Research in Biomedicine**, 2021 – 2023, 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](#)
- **B.Sc. in Biochemistry & Biotechnology**, 2016 – 2021, Biochemistry & Biotechnology Department, University of Thessaly, Larisa, Greece.  
**Thesis:** “Study of genetic variations on patients with hematological malignancies”.  
Supervisor: [Dr. Kostas Stamatopoulos](#)

## Work Experience

- **Bioinformatics Scientist**, 11/2023 – present, [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 data.
- **Master Student**, 10/2021 – 10/2023, 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.
- **Undergraduate Student**, 03/2020 – 09/2021, Immunogenetics Lab, (INAB | CERTH)
  - Assisted in basic laboratory procedures and introductory bioinformatics tasks for research projects.
- **Internship**, 07/2019 – 08/2019, 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.

## Technical skill

- **Languages:** R, Python, Bash, HTML, CSS
- **Data Science:** ggplot2, Quarto, R shiny, data.table, stringr, tidyverse
- **Bioinformatics Tools:** HISAT, STAR, SAMTOOLS, GATK, TrimGalore, DESeq2



- **Workflows:** Nextflow
- **Version Control & Deployment:** Git, GitHub

## Participation in Funded Projects

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- 06/2025 – present, [LATE-AYA](#), The scope of the EU-funded LATE-AYA project is to help Adolescents and young adults (AYA) survivors monitor and manage late effects of cancer treatment (*European Union’s Horizon Europe - HORIZON.2.1 - Health*)
- 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*)

## Community & Open-Source Contributions

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- **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](#))

## Selected Publications

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- F. Psomopoulos, C. O’Cathail, **N. Anastasiadou**, C. Cocuzza, W. L. Cuyper, 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

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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>
- 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.

## Languages

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- English: Full professional proficiency (C2)
- German: Intermediate proficiency (B1)
- Greek: Native proficiency