

SOTIRIOS TOULIOPOULOS

MSc Student in Bioinformatics at DTU

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EXPERIENCE

Research & Software Development Assistant

GeomScale, Google Summer of Code

May 2024 – August 2025 Remote

- Expanded dingo, a python package for metabolic modeling with functions performing post-sampling statistics.
- Funding from Google Summer of Code 2024 and 2025.

Graduate Internship in Systems Biology

Rega Institute, KU Leuven

January 2025 – August 2025 Leuven, Belgium

- Conducted Microbial Metabolism Research with Genome-Scale Metabolic Models using cobrapy, pandas, numpy, tidyverse, dplyr.
- Developed Software and Documentation for Statistical Analysis and Visualization of Fluxomics Data Sets.

Research Trainee in Computational Biology

Structural and Computational Biology lab, DUTH

July 2022 – June 2024 Alexandroupolis, Greece

- Examined the role of packing in protein structures using Python, R, bash and Pymol. File parsing in Linux OS with awk, grep, fmt, sed.
- Published an e-print Research Article on arXiv and presented 3 posters at scientific conferences.

PROJECTS

Member of the Organizing Committee

Panhellenic Conference of Students Bioscientists

November 2023 – March 2024 Alexandroupolis, Greece

- Initiated and organized the first workshops section of the conference.
- Designed and delivered an RNA expression data analysis workshop demonstrating Machine Learning applications for student training.

Research Assistant

DarkMatters group

October 2024 – December 2024 Remote

- Assisted in development of MilkExosOmics, a comprehensive database for analyzing the proteomic & transcriptomic cargo of milk-derived exosomes from different species.

Co-Leader and Advisor

iGEM Thrace

January 2023 – November 2025 Alexandroupolis, Greece

- Led the iGEM Thrace student team in the international synthetic biology competition, iGEM, earning a Silver Medal (2023) and a Gold Medal (2025).
- Assisted in team management, web development, scientific writing, project communication and bioinformatics analyses.

ABOUT ME

I have an interdisciplinary background in biology, data science, and software development. I am passionate about analyzing biomedical data to uncover complex patterns, generate meaningful insights and clearly communicate results. My curiosity and collaborative mind-set enable me to adapt quickly, work effectively in teams or independently and embrace challenges that foster growth and innovation.

EDUCATION

MSc in Bioinformatics

Technical University of Denmark

Sept 2025 – Sep 2027

BSc in Molecular Biology & Genetics

Democritus University of Thrace

Sep 2020 – Nov 2024

SKILLS

Organization Team Collaboration
Problem-solving Curious Communication
Adaptability Analytical Thinking

Linux git GitHub Quarto LaTeX

R Python C Perl bash HTML
CSS Excel

Data Analysis Data Wrangling Visualization

Machine Learning Graph Networks
Clustering Neural Networks

LANGUAGES

Greek (Native) ● ● ● ● ●

English (Proficiency) ● ● ● ● ●

Danish (Basic) ● ● ● ● ●