

SOTIRIOS TOULIOPOULOS

MSc Student in Bioinformatics at DTU

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🐙 SotirisTouliopoulos



EXPERIENCE

Research & Software Development Associate

GeomScale

📅 May 2024 – August 2025

📍 Remote

- Research & Software Development for dingo expansion: python package for metabolic modeling.
- Funding from Google Summer of Code 2024 and 2025.

Research Associate Fellow

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.

PROJECTS

Research Trainee

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.

Member of the Organizing and Scientific Committee

Panhellenic Conference of Students Bioscientists

📅 November 2023 – March 2024

📍 Alexandroupolis, Greece

- Developed and presented a RNA expression data analysis pipeline exploiting Machine Learning methods, aiming to educate students

Research Associate

DarkMatters group

📅 October 2024

📍 Remote

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

Coordinator and Head of Dry Lab

iGEM Thrace

📅 January 2023 – November 2023

📍 Alexandroupolis, Greece

- Led the iGEM Thrace student team to the international synthetic biology competition, iGEM, winning a silver medal award.
- Assisted in web development, scientific writing, data curation 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 insights, and clearly communicate results. My curiosity and collaborative mindset enable me to adapt quickly, work effectively in teams or independently and embrace challenges that foster personal growth.

SKILLS

Hard-working

Team Player

Disciplined

Curious

Communication

Time-Management

Analytical Thinking

Linux

git

GitHub

Quarto

LaTeX

R

Python

C

Perl

bash

HTML

CSS

SQL

Data Analysis

Data Wrangling

Visualization

Machine Learning

Graph Networks

Clustering

Neural Networks

LANGUAGES

Greek (Native)

● ● ● ● ●

English (Proficiency)

● ● ● ● ●

Danish (Basic)

● ● ● ● ●

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