

SOTIRIOS TOULIOPOULOS

MSc Student in Bioinformatics at DTU

@ s.v.touliopoulos@gmail.com

+45 50 21 81 62

Naerum, Denmark

LinkedIn: [sotirios-touliopoulos-91769920a/](#)

Github: [sotiristouliopoulos.github.io/](#)

Profile: [SotirisTouliopoulos](#)



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 MilkExosOomics, 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 mindset 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)

