

# SOTIRIOS TOULIOPOULOS

## MSc Student in Bioinformatics at DTU

@ s.v.touliopoulos@gmail.com  
LinkedIn: sotirios-touliopoulos-91769920a/

+45 50 21 81 62  
sotiristouliopoulos.github.io/

Naerum, Denmark  
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