Sotirios Touliopoulos

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🌐 **Website:** https://sotiristouliopoulos.github.io/

ABOUT ME

I hold a Bachelor's degree in Molecular Biology and Genetics and will be pursuing an MSc in Bioinformatics at the Technical University of Denmark (DTU) from September 2025. I am particularly interested in developing software for bioinformatics and computational biology, with a focus on omics data and metabolic modeling. Experienced in data analysis and visualization using Python, R, and version control using Git and GitHub.

SKILLS

Linux / Git / GitHub / R / Python / C / Perl / Bash / SQL / HTML / CSS / PyMol / Virtual Environments / Anaconda / Data Analysis / RNA-seq / Clustering / Graph Network Analysis

EDUCATION AND TRAINING

Master of Science (MSc) in Bioinformatics
Danish Technical University [09/2025 – 09/2027]

City: Copenhagen | **Country:** Denmark | **Website:** https://www.dtu.dk/english/

Ptychio (Bachelor of Science) in Molecular Biology & Genetics
Democritus University of Thrace [09/2020 – 11/2024]

City: Alexandroupolis | **Country:** Greece | **Website:** https://www.mbg.duth.gr/ | **Thesis:** Atomic density distributions in proteins: structural and functional implications, supervised by Prof. Nicholas M. Glykos

- Molecular Biology, Genetics, Bioinformatics, Computational Biology.
- Programming with C / Perl / Python / R.

Research Trainee at NMG group
Structural and Computational Biology lab (head: Nicholas M. Glykos) [07/2022 – 07/2024]

City: Alexandroupolis | **Country:** Greece | **Website:** https://utopia.duth.gr/glykos/index.html

- Computational analysis of protein structures using Python, R, bash.
- Data & Files management with Linux OS, Version Control with git & GitHub.
- e-print for Research Article available on arXiv.

"Computer-Aided Drug Design" Summer School
University of Pisa [15/07/2024 – 19/07/2024]

City: Pisa | **Country:** Italy

- Molecular docking, Molecular dynamics simulations.
- Pharmacophore-based drug design, Virtual Screening.

WORK EXPERIENCE

🏢 *Google Summer of Code, GeomScale* – Remote

City: Remote

Research Associate at GeomScale

[01/05/2024 – Current]

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

🏛 *KU Leuven* – Leuven, Belgium

City: Leuven | **Country:** Belgium

Research Associate Fellow (Erasmus+ Traineeships)

[01/2025 – Current]

- Microbial Metabolism Research using Genome-Scale Metabolic Models.
- Comparison of in-silico phenotypes using Statistical Analysis on Flux Sampling datasets.

CONFERENCES AND SEMINARS

Thessaloniki / Larissa / Alexandroupolis / Lamia , Greece
Poster presentations at scientific conferences
- "**Atomic density distributions in proteins: structural and functional implications**" presented at the Scientific Conference of the:
    - Hellenic Society of Computational Biology and Bioinformatics (HSCBB23),
    - Hellenic Crystallographic Association (11th HeCrA).
    - Hellenic Association of Biological Sciences (EEBE).
- "**MilkExosOmics: A comprehensive database for analyzing the proteomic & transcriptomic cargo of milk-derived exosomes from different species**" presented at the Scientific Conference of the:
    - Hellenic Society of Computational Biology and Bioinformatics (HSCBB24).

Link: https://utopia.duth.gr/glykos/posters/Touliopoulos_EEBE_poster.pdf

Alexandroupolis , Greece
Member of the organizing and scientific committees at student conferences
- 1st Panhellenic Conference of Students Bioscientists
    - Workshop organiser with title: "Transcriptomics for Beginners: A Hands-On Data Analysis Workshop".
    - Workshop instructor with title: "Modelling in Synthetic Biology: from qualitative to quantitative results".
- 2nd Panhellenic Conference of Students Bioscientists
    - Workshop instructor with title: "Molecular Graphics: Protein Structure Visualization with Pymol".
    - Workshop instructor with title: "Differential Expression Analysis: diving into transcriptome using R & Python".

Link: https://www.pfsb.gr/

VOLUNTEERING

[25/12/2022 – Current] Hybrid
Coordinator of iGEM Thrace 2023 & Advisor of iGEM Thrace 2025
- iGEM Thrace is a **student team** that got a **Silver Metal** award in the international **synthetic biology** competition, iGEM in Paris, France.
- Performed Bioinformatics analyses, Modeling, Web Development and Scientific Writing.

Link: https://2023.igem.wiki/thrace/index.html

LANGUAGE SKILLS

Mother tongue(s): Greek

Other language(s): English

HOBBIES AND INTERESTS

Sport: Handball
- Member of the Greek National Team U16.
- Individual honours: Most Valuable Player (MVP) & Best Right Winger awards.
- 4 years of participation in the A2 Greek Handball League.