



Sotirios Touliopoulos

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EDUCATION AND TRAINING

Ptychio (Bachelor of Science) in Molecular Biology & Genetics

Department of Molecular Biology and 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, Biochemistry, Structural Biology.
- Bioinformatics, Computational Biology.
- Programming with C / Perl / Python / R.

Research Trainee

Structural and Computational Biology group (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.
- Data & files management with Linux operating system.

"Computer-Aided Drug Design" Summer School

University of Pisa [15/07/2024 – 19/07/2024]

City: Pisa | Country: Italy | Website: <https://www.unipi.it/index.php/health-sciences/item/6967-summer-school-computer-aided-drug-design>

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

WORK EXPERIENCE

Contributor to Google Summer of Code 2024 with GeomScale

Google Summer of Code [01/05/2024 – 26/08/2024]

City: Remote

Link: <https://summerofcode.withgoogle.com/programs/2024/projects/vBkrROTa>

- Research & Software Development for dingo expansion: python package for metabolic modeling.

Undergraduate Summer Internship in Microbiological Analysis

University General Hospital of Alexandroupoli [03/07/2023 – 31/08/2023]

City: Alexandroupolis | Country: Greece

- Microbiological analyses of patients samples.

HONOURS AND AWARDS

[06/01/2025] European Union

"Erasmus+ Traineeships" Fellowship

Fellowship to conduct a 3-month Research Internship at KU Leuven, Belgium.

[12/2023] State Scholarships Foundation

"Participation of Student Groups in International Competitions" Fellowship

Fellowship for participating in the iGEM 2023 competition.

[02/2021] Prof. Eleni Kaldoudi

First-Class Grade in Physics for Biological Sciences

Honour for achieving the Highest-Class Grade alongside Best Group Project Presentation in "Physics for Biological Sciences" by Prof. Eleni Kaldoudi, Course Coordinator."

DIGITAL SKILLS

Linux / Git / GitHub / R / Python / HTML / PyMol / C / SQL

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).

VOLUNTEERING

[25/12/2022 – Current] Hybrid

Coordinator of iGEM Thrace 2023 & Advisor of iGEM Thrace 2025

- iGEM Thrace is a **student team** that participates in the international **synthetic biology** competition, iGEM. The competition takes place in Paris, France.
- In 2023, we got a **Silver Metal** award for the Depregut project. My focus was on Bioinformatics analyses and Modeling as team **Member**.
- In 2025, my focus will be on Web Development and Modeling as team **Advisor**.

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

Alexandroupolis , Greece

Member of 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 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".

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.