



Sotirios Touliopoulos

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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.

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.

LANGUAGE SKILLS

Mother tongue(s): Greek

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Linux / Git / GitHub / R / Python / PyMol

CONFERENCES AND SEMINARS

Thessaloniki / Larissa / Alexandroupolis / Lamia , Greece

Poster presentations at scientific conferences

- Scientific conference of the Hellenic Society of Computational Biology and Bioinformatics (HSCBB23).
- Scientific conference of the Hellenic Crystallographic Association (11th HeCrA).
- Scientific conference of the Hellenic Association of Biological Sciences (EEBE).
- Scientific conference of the Hellenic Society of Computational Biology and Bioinformatics (HSCBB24).

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/>

HOBBIES AND INTERESTS

Sport: Handball

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

VOLUNTEERING

[25/12/2022 – 05/11/2023] Hybrid

Coordinator of the iGEM Thrace student team

- iGEM Thrace was a student team that participated in the international synthetic biology competition, iGEM. The competition took place in Paris in November 2023.
- We presented our project, a hypothetical synthetic probiotic aiming to regulate SCFAs levels in the gut microbiome of people with depressive disorder. Our idea was awarded with a silver medal.
- My research role was to conduct bioinformatics analyses (cohorts creation, differential abundance analysis, genome annotation, biomarkers discovery).

Link: <https://2023.igem.wiki/thrace/team>

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