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.

Summer Internship

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

City: Alexandroupolis | **Country:** Greece

- Microbiological analyses of patients samples.

EDUCATION AND TRAINING

Bachelor Degree in Molecular Biology & Genetics

Department of Molecular Biology and Genetics, Democritus University of Thrace [09/2020 – Current]

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

Alexandroupolis / 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).

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

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 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/