



Curriculum vitae

Sofia Tyraki- BSc student, Chemistry

I am a senior undergraduate student at the Chemistry Department, University of Crete

EDUCATION

- 2021-now: Bachelor of Science (BSc) in Chemistry, University of Crete, Greece
- 2020: High school diploma, 2nd General High School, Heraklion, Crete, Greece (Grade: 19.5/20)

RESEARCH EXPERIENCE

- Sept. 2024 – Aug. 2025, BSc thesis-internship student at *Dynamic Structural Biology lab* (<https://www.imbb.forth.gr/gouridis/supervised>) by Dr. Giorgos Gouridis (IMBB-FORTH)

LABORATORY SKILLS

Chemistry:

- Use of Spectrophotometer, Nanodrop, pHmeter
- Performing TLC chromatography, affinity chromatography
- Solution preparation
- Liquid-liquid extraction
- Determination of boiling (capillary method) and melting point
- Distillation
- Crystallization- Recrystallization

Familiar with:

- Mass spectrometry (ESI-MS)
- Gas, liquid, ion exchange chromatography
- Atomic absorption spectroscopy

Biochemistry:

- Protein production (also preparation of antibiotics stocks, Petri dishes and media culture)

Date of birth: 07.01.2002

Address: Heraklion,
Greece

Contact details:

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- chem2970@edu.chemistry.uoc.gr

Languages:

- Greek(native)
- English (C2 ECPE Michigan Certificate, 2017)
- Spanish (levelB1,still learning)

- Cell culture
- Protein purification, dialysis and electrophoresis (SDS PAGE)
- Bradford
- WesternBlot
- DNA extraction
- Horizontal agarose gel electrophoresis for DNA separation
- Protein labeling for single molecule FRET

Biophysics:

- Single molecule FRET

Hobbies and interests:

- Watching documentaries
- Reading books
- Hiking
- Drawing
- Cooking

COMPUTATIONALSKILLS

Computer software:

- PyMOL in molecular modeling
- ChemDraw(drawing, editing, and sharing chemical structures and reactions)
- Origin (for data recording, analysis and presentation)
- MicrosoftOffice (for data recording, analysis and presentation)

SOFTSKILLS

- Communication and teamwork
- Interpersonal Skills
- Presentation skills
- Problem Solving
- Time management
- Reading academic papers
- Report writing

CONFERENCES

- 13-15 March 2024 Heraklion | Crete | Greece, ITE FORTH SYN BIO 2024: Harnessing Protein Biotechnology for Synthetic Biology - Exploiting Protein Evolution for Protein Engineering.
- 07-11 July 2025 Heraklion | Crete | Greece, ITE FORTH. The Onassis Foundation Science Lecture Series 2025 in BIOLOGY & CHEMISTRY. "Re-engineering Biology: Directed Evolution of Enzymes and Cellular Pathways".

References upon request

VOLUNTEERING

- 29 Sept. 2023, Experiments exhibition with COG (**C**hemistry **O**utreach **G**roup of Chemistry Department, University of Crete) at Researchers Day organized by ITE-FORTH (<https://www.forth.gr/en/content/Researchers-Night.141/>)