

# KONSTANTINOS ANTONOPOULOS

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I am a Molecular Techniques in Life Science MSc student, Chemical Engineering graduate consistently ranked in the top 5% of my class. My academic background includes expertise in bioinformatics, advanced data analysis, and computational modelling. I am committed to advancing our understanding of key factors influencing human health and longevity. My goal after finishing my Masters is to embark on a transformative Ph.D. journey in multi-omics and ageing biology, driven by the desire to contribute to discoveries with the potential to improve lives.

## EDUCATION

### Joint MSc in Molecular Techniques in Life Sciences

Aug. 2023 – Present

*Karolinska Institutet, KTH Royal Institute of Technology, Stockholm University*

*Stockholm, Sweden*

- Current GPA: Distinction
- Bioinformatics course project: Protein secondary structure prediction using neural networks (Keras). Grade: 99/100

### Diploma (Integrated Master) in Chemical Engineering

Sep. 2018 – Sep. 2023

*Aristotle University of Thessaloniki*

*Thessaloniki, Greece*

- GPA: 8.56/10, Honored for academic excellence
- Master Thesis: Biomedical engineering study for the diagnosis and treatment of osteoarthritis. Supervisors: A. Aggeli & G. Karapetsas. Grade: 10/10

### VUB Biotech Summer School 2022

Aug. 2022 – Aug. 2022

*Vrije Universiteit Brussels*

*Brussels, Belgium*

- Individual Research Internship: Development of a scalable and economically feasible microbial bioplastic production process

## EXPERIENCE & PROJECTS

### Research Assistant

Dec. 2023 – Present

*SciLifeLab, Fredrik Edfors Group*

*Stockholm, Sweden*

- Expand blood plasma proteome by integrating data from different platforms using advanced bioinformatics techniques
- Identify novel cancer biomarkers using differential expression and machine learning models
- Build from scratch *HDAnalyzeR* labs internal package for streamlined proteomics data analysis

### SciViz: Simplifying Visualization in Python

Mar. 2024 – Sep. 2024

*Open-Source, Personal Project*

*Stockholm, Sweden*

- Build *SciViz* a Python package for publication-ready scientific visualization in a simple and efficient way
- Expand current visualization possibilities with a focus on user-friendliness
- Create extensive documentation and guides

### Research Assistant

Jun. 2022 – Nov. 2022

*THEMLab, NSRF “Demokritos”*

*Athens, Greece*

- Numerical modelling of fine and ultrafine particles in the cardiovascular system
- Computational fluid-particles dynamics analysis under the influence of magnetic field

## SELECTED SKILLS

- **Technical Skills:** Bioinformatics, Machine Learning, Data Analysis, Statistical Analysis, Data Visualization, Computational Modeling, Package Development, Technical Writing
- **Programming Languages:** R, Python, FORTRAN, MATLAB, LaTeX
- **Soft Skills:** Leadership, Collaboration, Problem Solving, Scientific Communication, Multidisciplinary Research, Project Management, Time Management

## PUBLICATIONS & PRESENTATION

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### Publications

- **Antonopoulos, K.**, Opsimou, E. (2024). Delaying Ageing: Should we live longer? *Expressis Verbis - ELSA Thessaloniki Academic Journal*, 10 - Accepted
- Karamelas, D., **Antonopoulos, K.**, Michailidis, Y., Mitrotasios, M., Mandroukas, A., & Metaxas, T. (2021). Comparison of Ergogenic Effects of Caffeine and Nitrate Supplementation on Speed, Power and Repeated Sprint Performance of Soccer Players. *Physiologia*, 1(1), 3–11.

### Poster Presentations

- Álvez M. B., **Antonopoulos K.**, Kotol D., Sutantiwanichkul T., Uhlén M. & Edfors F. (Sep. 2024). "Integrative Plasma Proteomics Analysis for Enhanced Cancer Biomarker Discovery", *Benzon Symposium 68 – Integration of Mass Spectrometry-based Proteomics and AI to Revolutionize Personalized Medicine*, Copenhagen.
- Karamelas D., **Antonopoulos K.**, Michailidis Y., Mitrotasios M., Mandroukas A., & Metaxas T. (May 2022). "Comparison of Ergogenic Effects of Caffeine and Nitrate Supplementation on Repeated Sprint Performance of Soccer Players", *30th International Congress on Physical Education & Sport Science*, Komotini.

## SELECTED AWARDS & HONORS

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<b>Prize scholarship for excellent academic performance</b> <i>HELLENIQ ENERGY</i>	<b>Dec. 2023, Dec. 2022, Dec. 2021</b> <i>Thessaloniki &amp; Athens, Greece</i>
<b>1st Place in Invent For The Planet 2023 National Greek Round</b> <i>Texas A&amp;M University</i>	<b>Feb. 2023</b> <i>Thessaloniki, Greece</i>
<b>One of the 28 scholars in the 1st Interdisciplinary School for Environmental Crisis</b> <i>Institute for the Advancement of Research and Education in Arts, Sciences &amp; Technology</i>	<b>Dec. 2022</b> <i>Euboea, Greece</i>
<b>Top-5 Finalist in Creative Shock Global Social Business Case Competition</b> <i>ISM University of Management and Economics</i>	<b>Nov. 2022</b> <i>Vilnius, Lithuania</i>
<b>Representative of BEST Thessaloniki for award for voluntary actions</b> <i>Municipality of Thessaloniki</i>	<b>Aug. 2021</b> <i>Thessaloniki, Greece</i>
<b>1st Place in Local &amp; National Rounds of Engineering Competition</b> <i>Board of European Students of Technology (BEST)</i>	<b>May 2021, Mar. 2021, Dec. 2019</b> <i>Thessaloniki, Greece</i>

## MEMBERSHIPS & VOLUNTEERING

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<b>Board of European Students of Technology (BEST) Thessaloniki</b> • Engineering Competition Topic Team Coordinator (Dec. 2022 - Mar. 2023) • Design Team Coordinator (Sep. 2022 - Aug. 2023) • Vice President for Public Relations (Sep. 2021 - Aug. 2022) • Main Organiser in BEST Soft Skills Track (May 2021 - Jun. 2021)	<b>May 2021 – Sep. 2023</b>
<b>Assistant in Computer Center of Chemical Engineering Department</b> • IT Support and Maintenance of 30 computers	<b>Oct. 2018 – Aug. 2022</b>

## LANGUAGES

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- English: ECPE - C2 (2015), IELTS (2022) - Overall Score 7.5 (L-8.0, R-8.5, S-7.0, W-7.0)
- German: GOETHE ZERTIFIKAT - C1 (2022)