

# KONSTANTINOS ANTONOPOULOS

🏠 Stockholm, Sweden 📞 +46 769657937 ✉ EMail 🔗 LinkedIn 🖥 KAntonopoulos 🐙 GitHub

I am a recent Chemical Engineering graduate consistently ranked in the top 5% of my class. My academic background includes expertise in advanced laboratory techniques, bioinformatics, molecular techniques, and computational modelling, as demonstrated by a published peer-reviewed article. Currently pursuing an MSc in Molecular Techniques in Life Science, I am committed to advancing our understanding of key factors influencing human health and longevity. My long-term goal is to embark on a transformative Ph.D. journey in systems biology, driven by the desire to contribute to groundbreaking 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

- Expected GPA: Distinction

### Diploma (Integrated Master) in Chemical Engineering

Sep. 2018 – Sep. 2023

Aristotle University of Thessaloniki

Thessaloniki, Greece

- GPA: 8.56/10, Honored for academic excellence
- **Diploma Thesis:** Biomedical engineering study for the diagnosis and treatment of osteoarthritis. Supervisors: A. Aggeli & G. Karapetsas. Grade: 10/10
- **Capstone Project:** Process Design for Biochemical Conversion of Glucose to Ethanol. Supervisors: M. Georgiadis & P. Vareltsis. Grade: 9/10

### Global Engineering Design Course

May 2023 – Jun. 2023

Texas A&M University

Thessaloniki, Greece

- Team Project: Transformation of a soccer stadium into a dynamic concert stage

### 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

### High School Diploma

Sep. 2015 – Jun. 2018

High School of Pefka

Thessaloniki, Greece

- GPA: 19.6/20

## EXPERIENCE & INTERNSHIPS

### Research Assistant

Dec. 2023 – Present

SciLifeLab, Fredrik Edfors Group

Stockholm, Sweden

- Find novel cancer biomarkers in blood samples using Machine Learning techniques
- Integrate proteomics data from different platforms

### Research Assistant

Jun. 2022 – Nov. 2022

THEMLab, NSCR “Demokritos”

Athens, Greece

- Numerical Modelling of Fine and Ultrafine Particles in the Cardiovascular System
- Computational Fluid-Particles Dynamics (CFPD)

## SELECTED AWARDS & HONORS

### Prize scholarship for excellent academic performance

Dec. 2023, Dec. 2022 & Dec. 2021

HELLENIQ ENERGY

Thessaloniki & Athens, Greece

### 1st Place in Invent For The Planet 2023 National Greek Round

Feb. 2023

Texas A&M University

Thessaloniki, Greece

### One of the 28 scholars in the 1st Interdisciplinary School for Environmental Crisis

Dec. 2022

Institute for the Advancement of Research and Education in Arts, Sciences & Technology

Euboea, Greece

### Top-5 Finalist in Creative Shock Global Social Business Case Competition

Nov. 2022

ISM University of Management and Economics

Vilnius, Lithuania

## Representative of BEST Thessaloniki for award for voluntary actions

Aug. 2021

*Municipality of Thessaloniki*

*Thessaloniki, Greece*

## 1st Place in Local & National Rounds of Engineering Competition

May 2021, Mar. 2021, Dec. 2019

*Board of European Students of Technology (BEST)*

*Thessaloniki, Greece*

## PUBLICATIONS & PRESENTATION

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### Publications | *Peer-Reviewed*

Apr. 2023, Oct. 2021

- **Antonopoulos, K.**, Opsimou, E., Mantzoufa, P. (2023). Legal & Ethical Concerns regarding the Development of Gene Therapy. *Expressis Verbis - Law School Academic Journal*, 9, 232-237
- Karampelas, 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.

### Publication | *In Review*

Jan. 2024

- **Antonopoulos, K.**, Opsimou, E. (2024). Delaying Ageing: Should we live longer?. *Expressis Verbis - Law School Academic Journal*, 10

### Presentation

Nov. 2023

- Karampelas 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.

## MEMBERSHIPS & VOLUNTEERING

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### Board of European Students of Technology (BEST) Thessaloniki

May 2021 – Sep. 2023

- 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)

### Assistant in Computer Center of Chemical Engineering Department

Oct. 2018 – Aug. 2022

- IT Support and Maintenance of 30 computers

### Propulsion Engineer in Aristotle Space & Aeronautics Team (ASAT)

May. 2019 – Jun. 2020

- Engineered R-Candy propellants, Black Powder, and Pyrogen for Solid Rocket Motors
- Designed rocket motor ignitions, elevating the performance and reliability of the "Sirius" M-class motor
- Conducted the selection of the Rocket "Pegasus" Commercial-Off-The-Shelf (COTS) motor

## 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)

## SELECTED SKILLS

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- **Technical Skills:** Medical Device Design, Bioinformatics, Cell Culture Technique, Computational Modeling, Data Analysis, Statistical Analysis, Technical Writing
- **Programming Languages:** Python, R, FORTRAN, MATLAB, LaTeX
- **Soft Skills:** Leadership & Collaboration, Problem Solving, Scientific Communication, Multidisciplinary Research, Project Management, Time Management