

Thomas Zacharis PhD

contact

tomzach3@gmail.com

personal website

thwmakos.xyz

linkdedin profile

linkedin.com/in/
thomas-zacharis

github profile

github.com/thwmakos

programming

C++23, matlab,
Mathematica, Python,
C#, Rust, HTML, CSS,
L^AT_EX

short bio

Recent PhD graduate in mathematics with a specialisation in infinite dimensional dynamics, combining advanced analytical skills with a strong programming background. Proven ability to tackle complex problems, innovate solutions, and apply mathematical concepts in diverse domains, seeking a challenging position that leverages both mathematical expertise and programming proficiency.

research skills

- effective communication: able to communicate complex ideas clearly and concisely to both technical and non-technical audiences
- collaborative mindset: experienced in working effectively in a team environment, with a strong ability to collaborate and contribute to open-source projects
- adaptability and flexibility: quick to adapt to changing project requirements and priorities
- prioritisation organisation: skilled in managing multiple projects and deadlines, with a strong ability to prioritise tasks and maintain a high level of productivity
- critical thinking and problem-solving: able to approach problems from multiple angles, think critically, and develop creative solutions
- resilience and perseverance: strong ability to work through challenges and setbacks, with a commitment to finding solutions and overcoming obstacles
- continuous learning and improvement: committed to ongoing learning and professional development, with a strong desire to stay up-to-date with the latest technologies and methodologies

knowledge areas

software	strong knowledge of C++23, matlab, Mathematica, Python (numpy, scipy, pandas, sage, Selenium), Rust, HTML/CSS, C#, website hosting & web app deployment on Linux VPS
technical	scientific computing, data structures & related algorithms, linear and nonlinear optimisation algorithms, numerical analysis, partial differential equations simulation, inverse problems, data assimilation

education & professional experience

2019–2024	Teaching assistant & programming instructor Tutor in theoretical, applied, computational mathematics) and programming (algorithms, optimisation, numerical and symbolic computation in Python)	University of Edinburgh
2018 – 2023	PhD in Mathematics September 2018 – July 2023, funded by Maxwell Institute	University of Edinburgh
2017–2018	MSc in Computational Applied Mathematics Scholarship from University of Edinburgh	University of Edinburgh
2012–2017	BSc in Mathematics Admission award for exceptional students	University of Athens