

Nicolò Crescenzo

Curriculum Vitae

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🌐 [ncrescenzo.github.io](https://github.com/ncrescenzo)
in [nico-crescenzo](#)
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I am currently working at the Department of Mathematics “Tullio Levi-Civita” of the University of Padova as scientific software developer. My interests are focused on numerical methods for Partial Differential Equations, computational solid mechanics, computational fluid dynamics, software development and High Performance Computing.

Education

- Jan 2022 – **Ph.D. in Computational Mathematics**, *Università degli Studi di Padova*
Dec 2024 Department of Mathematics “Tullio Levi-Civita”
Thesis: Numerical Methods for the Simulation of Wave Propagation Phenomena in Linear Viscoelastic Kelvin-Voigt Materials
Supervisor: Prof. Antonia Larese
- Oct 2018 – **Master Degree in Mathematical Engineering**, *Università degli Studi di Padova*
Apr 2021 Department of Civil, Environmental and Architectural Engineering
Grade: 110/110 with honors
- Sep 2015 – **Bachelor Degree in Aerospace Engineering**, *Università degli Studi di Padova*
Sep 2018 Department of Industrial Engineering
Grade: 110/110 with honors

Research & Work Experience

- Jan 2025 – **Technical and Administrative Staff**, *Università degli Studi di Padova*
Now Department of Mathematics “Tullio Levi-Civita”
- Installation and updating of software packages and libraries dedicated to scientific computing and result visualization in a Linux environment.
 - Management and support for scientific computing activities within a Linux HPC environment for the SYCURI (“Synergic Strategies for Cultural Heritage at Risk”) project, including the setup and configuration of computational software for numerical simulations.
- Sep 2021 – **Research Fellow**, *Università degli Studi di Padova*
Dec 2021 Department of Mathematics “Tullio Levi-Civita”
- Development of a mathematical and numerical model simulating the propagation of waves on linear viscoelastic and heterogeneous materials of Kelvin-Voigt type.

Other Activities

- Tutor**, *Università degli Studi di Padova, Department of Industrial Engineering*
- *Numerical Analysis* – Bachelor’s Degree in Mechanical Engineering, 30h
 - *Numerical Analysis* – Bachelor’s Degree in Chemical and Materials Engineering, 30h

Visiting Period

During the second year of the PhD, I spent six months working at Geobrugg AG (Romanshorn, Switzerland), a company leader in the construction of flexible barriers aimed at the protection against natural hazards, such as rockfall, snow avalanches and debris flows.

Workshop organization

Co-organizer of the *Kratos Multiphysics Workshop* held at the Department of Mathematics “Tullio Levi-Civita” of the University of Padova from November 6th to November 8th, 2024, and responsible for developing and maintaining the event's official [website](#).



Mini-symposium organization

Co-organizer of the minisymposium “*Particle-Based Methods in Applied and Industrial Sciences*” at the congress of the Italian Society of Applied and Industrial Mathematics (SIMAI) held in Matera from the 28th of August to the 1st of September 2023.

Computer Skills

Coding	Matlab/Octave, Python, Fortran, C++, Bash, \LaTeX
Other tools	Make, CMake, Slurm, Git/GitHub, Docker/Singularity
Software	Paraview, VisIt, GiD, Microsoft Office
OS	Debian/Ubuntu, MacOS

Languages

Italian 	Mother Tongue
English 	B2