



Roberto **Sanfelice**

MATHEMATICS · NUMERICAL ANALYSIS

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Education

Master's Degree in Mathematics

UNIVERSITY OF SALERNO

Fisciano (SA), Italia

2022-2024

- **Field:** MAT/08 - Numerical Analysis
- **Title:** "Numerical Methods Based on Exponential Fitting for Quantum Devices"
- **Supervisor:** Prof. Angelamaria Cardone
- **Co-supervisor:** Prof. Sergio Pagano
- **Co-supervisor:** Prof. Carlo Barone
- **Grade:** 110/110 cum laude

Bachelor's Degree in Mathematics

Fisciano (SA), Italia

UNIVERSITY OF SALERNO

2018-2021

- **Field:** MAT/08 - Numerical Analysis
- **Title:** "Barycentric Rational Interpolation and Its Applications to Quadrature and Volterra Integral Equations"
- **Supervisor:** Prof.ssa Angelamaria Cardone
- **Grade:** 110/110 cum laude

Experience

Curricular Internship within the Master's Degree Program in Mathematics

Fisciano (SA), Italia

UNIVERSITY OF SALERNO - NUMERICAL ANALYSIS LABORATORY, DIPMAT.

December 2023 - October 2024

- **Supervisor:** Prof. Angelamaria Cardone
- **Tasks:** Development and implementation of numerical methods for differential equations. Development of mathematical software in MATLAB. In-depth study of quantum computation concepts.

Curricular Internship within the Bachelor's Degree Program in Mathematics

Fisciano (SA), Italia

UNIVERSITY OF SALERNO - NUMERICAL ANALYSIS LABORATORY, DIPMAT.

June 2021 - July 2021

- **Supervisor:** Prof. Angelamaria Cardone
- **Tasks:** Development of quadrature formulas based on barycentric rational interpolation for Volterra integral equations. Development of mathematical software in MATLAB.

Seminars

Participation as a speaker at the workshop "SCI 2023 - Scientific Calculus for Innovation" (workshop home page)

Fisciano (SA), Italia

UNIVERSITY OF SALERNO - NUMERICAL ANALYSIS LABORATORY, DIPMAT.

January 13, 2023

- **Title:** "Barycentric Rational Interpolation Based on Exponential Fitting".

Participation as a speaker at the event "Presentation of Internship and Thesis Activities in Numerical Analysis"

Fisciano (SA), Italia

UNIVERSITY OF SALERNO - NUMERICAL ANALYSIS LABORATORY, DIPMAT.

May 13, 2022

- **Title:** "Barycentric Rational Interpolation and Its Applications to Quadrature and Volterra Integral Equations".

Teaching Assistance

Teaching assistance for the Laboratory of Programming and Calculus course at the Department of Mathematics

UNIVERSITY OF SALERNO. DIPMAT

Fisciano (SA), Italy

2023 - 2024

- **Supervisor:** Prof. Angelamaria Cardone
- **Tasks:** 16 Hours of reinforcement and exercises on the course's topics.

Teaching assistance for the Geometry I course at the Department of Mathematics

UNIVERSITY OF SALERNO. DIPMAT

Fisciano (SA), Italy

2023 - 2024

- **Supervisor:** Prof. Giovanni Sparano
- **Tasks:** 16 Hours of reinforcement and exercises on the course's topics.

Skills

Programming Advanced: MATLAB, C#, Python, Javascript | Intermediate: Octave, C, R, Java | Basic: C++,Julialang

Softwares Office, G Suite, MS Teams, RStudio, Visual Studio, VS Code, Unity, Blender

Languages Italian (native speaker), English (B2)