

# Samuele Ferri

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## Education

- 2024–now **PhD in Computer science and Mathematics of Computation**, *University of Insubria*, Como
- 2020–2022 **Master degree in mathematics**, *University of Insubria*, Como  
Graduation grade: 104/110
- 2022 **Teaching qualification (Italy)**, *University of Insubria*, Como  
24 cfu qualification
- 2017–2020 **Bachelor degree in mathematics**, *University of Insubria*, Como  
Graduation grade: 93/110
- 2013–2017 **High school diploma**, *Liceo Lugano 1*, Lugano

## Research interests

Numerical linear algebra, Numerical methods for PDEs

## Publications

- N. Barakitis, M. Donatelli, S. Ferri, V. Loi, S. Serra-Capizzano, R. Sormani. (2025). "Blocking structures, approximation, and preconditioning". *Numerical Algorithms*. 1-35. [10.1007/s11075-025-02157-y](https://doi.org/10.1007/s11075-025-02157-y)
- S. Ferri, C. Giraud, V. Loi, M. Kuchta, S. Serra-Capizzano. "Spectral analysis of the stiffness matrix sequence in the approximated Stokes equation". (preprint, [doi.org/10.48550/arXiv.2510.25252](https://doi.org/10.48550/arXiv.2510.25252))

## Master thesis

- Title *De exoticis 7-sphaeris*
- Supervisor Giovanni Bazzoni
- Description In this paper, we retrace Milnor's studies aimed at finding homeomorphic but not diffeomorphic manifolds on the 7-sphere, through the study of 3-sphere bundles on the 4-sphere and their characteristic classes.

## Bachelor thesis

- Title *Mixing time for Glauber dynamics*
- Supervisor Andrea Posilicano
- Description This thesis work is aimed at studying the time required for the Markov chain describing the Glauber dynamics for the Ising model to reach its stationary distribution.

March 8, 2026

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