

Ilaria Arteconi

Curriculum Vitae

Personal Information

- Nationality: Italian
- Date and place of birth: 05/01/2000, Pesaro, Italy
- e-mail: ilaria.arteconi2@unibo.it
- website: unibo.it/sitoweb/ilaria.arteconi2

Research Interests

[*Numerical Analysis*] My research interests focus on geometric modeling, with a particular emphasis on methods for curve generation based on B-spline functions. In particular, during my PhD I am currently working on planar Pythagorean-Hodograph (PH) B-spline curves of arbitrary degree.

Education

Ph.D. in Mathematics

2025 – Present

Alma Mater Studiorum - Università di Bologna, Italy, XLI cycle

- Supervisor: Carolina Vittoria Beccari
- Co-supervisor: Lucia Romani

M.Sc. in Mathematics

2022 – 2025

Alma Mater Studiorum - Università di Bologna

- Final Grade: 110/110 *cum laude*
- Thesis: *Quasi Conformal and Low-Rank parametrization of planar domains: application to isogeometric analysis with Chebyshevian B-splines*
<https://amslaurea.unibo.it/id/eprint/35918>
- Supervisor: Carolina Vittoria Beccari

B.Sc. in Mathematics

2018 – 2022

Alma Mater Studiorum - Università di Bologna

- Final Grade: 99/110
- Thesis: *Il problema isoperimetrico nel piano*
- Supervisor: Giovanni Cupini
- Co-supervisor: Ermanno Lanconelli

Conferences Attended

- *II International Conference on Approximation Theory and Applications*, Gaeta, 2026.

PhD Schools Attended

- *Mathematics and Machine Learning for Image Analysis*, Bologna, 2026.
- *Geometric Intelligence: Theory and Practice of 3D Understanding in Computer Graphics and 3D Computer Vision*, Genova, 2025.

Talks and posters

- **Poster**, *PH B-splines: from construction to point interpolation*, Math-MIND, Bologna, 2026.
- **Talk**, *Interpolating Planar Point Data with Open and Closed Quintic PH B-Spline Curves*, II International Conference on Approximation Theory and Applications, Gaeta, 2026.

Abroad Experiences

- **Erasmus**, University of Bergen (Norway), January 2024-June 2024.

Internships

- **Curricular Internship**, EGSolutions, September 2024-October 2024.

Scholarships

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| • Scholarship , PhD scholarship | 2025 |
| • Scholarship , Erasmus scholarship | 2024 |

Skills

- **Languages**: Italian (Native), English (Fluent, C1)
- **Programming & IT**: $\text{\LaTeX}$, Python, MATLAB, C/C++