

# Curriculum vitae

**Dino Festi**

26 settembre 2021

## Personal data

Name	Dino
Surname	Festi
Born	23 August 1988
In	Salerno, Italy
Citizenship	Italian
Email	dinofesti@gmail.com
Website	<a href="https://sites.google.com/view/dinofesti">https://sites.google.com/view/dinofesti</a>
Mailing address	Dipartimento di Matematica ‘Federigo Enriques’, Università degli studi di Milano, via Cesare Saldini 50, 20133, Milano, Italy.

## Education and positions

Jul 2020 – Jun 2022	<b>Post-Doc</b> (Assegno di ricerca) at Università degli Studi di Milano.
Oct 2016 – Jun 2020	<b>Post-Doc</b> (Wissenschaftlicher Mitarbeiter) at Johannes Gutenberg Universität, Mainz. Funded by SFB/TRR45.
Sep 2012 – Aug 2016	<b>ALGANT PhD</b> , <i>Universiteit Leiden</i> and <i>Università degli studi di Milano</i> , under the supervision of Ronald van Luijk and Bert van Geemen.
Sep 2010 – Jul 2012	<b>MSc in Mathematics</b> , ALGANT master, <i>Università degli Studi di Padova</i> and <i>Universiteit Leiden</i> . Master thesis: “Density of rational points on a family of diagonal quartic surfaces”, under the supervision of Ronald van Luijk. Three master degrees received, from the universities of Leiden, Padova, and Bordeaux. Grades: 110/110 cum laude (Padova), 7.9/10 (Leiden).
Sep 2007 – Sep 2010	<b>BSc in Mathematics</b> , <i>Università degli Studi di Salerno</i> . Bachelor thesis: “Decomposizione di interi in somme di potenze”, under the supervision of Patrizia Longobardi. Grade: 110/110 cum laude.

## List of publications

- 2021 **Rationalizability of square roots**, with Marco Besier, *Journal of Symbolic Computations*, **106**: 48–67.
- 2020 **Arithmetic and geometry of a K3 surface emerging from virtual corrections to Drell-Yan scattering**, with Marco Besier, Micheal Harrison, Bartosz Naskręcki. *Communications in Number Theory and Physics*, **14**(4).
- 2019 **Bhabha scattering and the Picard lattice of a family of double sextics**, with Duco van Straten, *Communications in Number Theory and Physics*, **13**(2).
- 2018 **On the arithmetic of a family of degree - two K3 surfaces**, with Florian Bouyer, Edgar Costa, Christopher Nicholls, Mckenzie West, *Mathematical Proceedings of the Cambridge Philosophical Society*, 1–20.
- 2016 **Unirationality of del Pezzo surfaces of degree 2 over finite fields**, with Ronald van Luijk, *Bulletin of the London Mathematical Society*, **48**:135–140.
- 2013 **The Cayley–Oguiso free automorphism of positive entropy on a K3 surface**, with Alice Garbagnati, Bert van Geemen, Ronald van Luijk, *Journal of Modern Dynamics*, **7**(1):75–97.

## Other documents and preprints

- 2021 **Rationalizability of field extensions**, with Andreas Hochenegger, arXiv:2106.05621. *Submitted*.
- 2021 **Enriques involutions on pencils of K3 surfaces**, with Davide Veniani, arXiv:2102.09411. *To appear on Mathematische Nachrichten*.
- 2021 **Counting elliptic fibrations on K3 surfaces**, with Davide Veniani, arXiv:2103.07324. *Submitted*.
- 2018 **An algorithm to compute the geometric Picard lattice of a degree-two K3 surface**, arXiv:1808.00351.
- 2016 **Topics in the arithmetic of del Pezzo and K3 surfaces**, PhD thesis.
- 2015 **Unirationality of del Pezzo surfaces of degree 2 over finite fields (extended version)**, with Ronald van Luijk, arXiv:1408.0269v2.
- 2012 **Density of rational points on a family of diagonal quartic surfaces**, Master thesis, available at <http://www.algant.eu/documents/theses/festi.pdf>.

## Events organized

Fall 2021	<b>Construction of moduli via geometric invariant theory</b> , seminar, with Manfred Lehn and Paolo Stellari, <i>Università degli Studi di Milano</i> and <i>JGU Mainz</i>
Spring 2021	<b>K3 surfaces and hyperkähler manifolds</b> , workshop, with Chiara Camere, <i>Università degli Studi di Milano</i> .
Spring 2019	<b>Quantum computation and quantum information</b> , seminar, with Raymond van Bommel, <i>JGU Mainz</i> .
Sep 2018	<b>Summer school on arithmetic geometry</b> , with Ariyan Javanpeykar and Davide C. Veniani, <i>Università di Salerno</i> .
Oct 2017	<b>Topics in arithmetic and algebraic geometry</b> , autumn school with Ariyan Javanpeykar and Davide C. Veniani, <i>JGU Mainz</i> .
2014/2015	<b>K3 surfaces</b> , seminar with Erik Visse, <i>Universiteit Leiden</i> .
Spring 2013	<b>Modular forms</b> , seminar with Pinar Kılıçer, <i>Universiteit Leiden</i> .

# Teaching

Fall 2021	<b>K3 surfaces and their Picard lattice</b> , graduate course, <i>Rijksuniversiteit Groningen</i> .
Fall 2021	<b>Geometria III</b> , tutor, <i>Università degli studi di Milano</i> .
Fall 2021	<b>Geometria I</b> , tutor, <i>Politecnico di Milano</i> .
Fall 2020	<b>Geometria I</b> , tutor, <i>Università degli studi di Milano</i> .
Fall 2020	<b>Geometria III</b> , tutor, <i>Università degli studi di Milano</i> .
Spring 2020	<b>Algebraic curves and Riemann surfaces</b> , teaching assistant and exercise sessions coordinator, <i>JGU Mainz</i> .
Fall 2019	<b>Topology</b> , teaching assistant and exercise sessions coordinator, <i>JGU Mainz</i> .
Fall 2018	<b>Topology</b> , teaching assistant and exercise sessions coordinator, <i>JGU Mainz</i> .
Aug 2018	<b>Elliptic curves</b> , summer course for master and PhD students (6 lectures), lecturer, <i>Nesin math village</i> .
Spring 2018	<b>Sheaf cohomology</b> , with D. C. Veniani, lecturer, <i>JGU Mainz</i> .
Apr 2018	<b>Elliptic curves in cryptography</b> , spring course for master students (15 lectures), with M. Kazalicki, lecturer, <i>AIMS Senegal, Mbour</i> .
Fall 2017	<b>Schemes and divisors</b> , with D. C. Veniani, lecturer, <i>JGU Mainz</i> .
Aug 2017	<b>Elliptic curves</b> , summer course for master students (6 lectures), lecturer, <i>Nesin math village</i> .
Spring 2017	<b>Scheme theory</b> with D. C. Veniani, lecturer, <i>JGU Mainz</i> .
Fall 2016	<b>Classic algebraic geometry</b> , with D. C. Veniani, lecturer, <i>JGU Mainz</i> .
Fall 2016	<b>Number theory</b> , teaching assistant, <i>JGU Mainz</i> .
Nov 2016	<b>Elliptic curves in cryptography</b> , winter course for master students (15 lectures), with F. Najman, lecturer, <i>AIMS Senegal, Mbour</i> .
Aug 2014	<b>Elliptic curves</b> , summer course for master students (6 lectures), lecturer, <i>Nesin math village</i> .
Fall 2013	<b>Rational points on varieties</b> , teaching assistant, <i>Universiteit Leiden</i> .
Spring 2013	<b>Algebra 1</b> , teaching assistant, <i>Universiteit Leiden</i> .
Fall 2012	<b>Elliptic curves</b> , teaching assistant, <i>Universiteit Leiden</i> .

## Didactic and outreach

Jun 2019	<b>MMA</b> , mini-course for high school students, <i>Mainz Universität</i> .
May 2018	<b>History of mathematics</b> , <i>Liceo “B. Russell”, Milano</i> .
Sep 2017	<b>Didactic experimentation</b> , <i>Liceo “G. da Procida”, Salerno</i> .
Sep 2016	<b>Didactic experimentation</b> , <i>Liceo “G. da Procida”, Salerno</i> .
Sep 2015	<b>Didactic experimentation</b> , <i>Liceo “G. da Procida”, Salerno</i> .

## Editorial activities

<b>Reviewer</b>	for AMS and zbMath.
<b>Referee</b>	for peer-reviewed international journals and proceedings of conferences.

## Languages

native	<b>Italian</b>
fluent	<b>English</b>
B2	<b>Dutch</b>
B2	<b>German</b>
basic	<b>Spanish</b>