

Curriculum vitae

Dino Festi

Personal data

Name	Dino
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Born	23 August 1988
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Education and positions

Oct 2016 – Dec 2019	Post-Doc at Johannes Gutenberg Universität, Mainz. Funded by SFB/TRR45.
Sep 2012 – Aug 2016	ALGANT PhD , <i>Universiteit Leiden</i> and <i>Università di Milano</i> , under the supervision of Ronald van Luijk and Bert van Geemen.
Sep 2010 – Jul 2012	MSc in Mathematics , 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	BSc in Mathematics , <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

- 2019 **Picard lattice structure of double sextics coming from theoretical high energy particle physics**, with Marco Besier, Micheal Harrison, Bartosz Naskrecki, arXiv:1908.01079.
- 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)**, June 2019.
- 2018 **An algorithm to compute the geometric Picard lattice of a degree-two K3 surface**, arXiv:1808.00351.
- 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 **Topics in the arithmetic of del Pezzo and K3 surfaces**, PhD thesis.
- 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.
- 2015 **Unirationality of del Pezzo surfaces of degree 2 over finite fields (extended version)**, with Ronald van Luijk, arXiv:1408.0269v2.
- 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*, vol. 7, 2013, no. 1, 75–97.
- 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

- Spring 2019 **Quantum computation and quantum information**, seminar, with Raymond van Bommel, JGU Mainz.
- Sep 2018 **Summer school on arithmetic geometry**, with Ariyan Javanpeykar and Davide C. Veniani, *Università di Salerno*.
- Oct 2017 **Topics in arithmetic and algebraic geometry**, autumn school with Ariyan Javanpeykar and Davide C. Veniani, *JGU Mainz*.
- 2014/2015 **K3 surfaces**, seminar with Erik Visse, *Universiteit Leiden*.
- Spring 2013 **Modular forms**, seminar with Pinar Kılıçer, *Universiteit Leiden*.

Selected talks

- 2018 **An algorithm to compute the Picard lattice of a genus two K3 surface**, SIMAI-UMI-PTM Joint meeting, *Wrocław*.
- 2018 **Computing the Picard lattice of a genus two K3 surface**, Lectures on computational aspects of algebraic geometry, *Zagreb University*.
- 2017 **The Picard lattice of another family of double covers of the projective plane**, Seminario di Natale 2017, *Università degli studi di Milano*.
- 2017 **Rational points on diagonal quartic surfaces**, invited speaker, *Carl von Ossietzky Universität Oldenburg*.
- 2017 **The Derived Global Torelli theorem for K3 surfaces**, Seminar on derived Categories, *JGU Mainz*.
- 2016 **The Picard lattice of a family of double covers of \mathbb{P}^2** , Conference: Varieties with trivial canonical bundles, *Bedlewo*.
- 2016 **The Picard lattice of some double covers of \mathbb{P}^2 in a family**, *Galatasaray university, Istanbul*.
- 2016 **The Picard lattice of a family double covers of \mathbb{P}^2** , *JGU, Mainz*.
- 2015 **Elliptic K3 surfaces**, Seminar on K3 surfaces and their automorphisms, *Universiteit Leiden*.
- 2015 **An algorithm to compute the automorphism group of a K3 surface**, Seminar on K3 surfaces and their automorphisms, *Universiteit Leiden*.
- 2014 **Rational points on K3 surfaces**, invited speaker, *Università di Salerno*.
- 2014 **Computing the automorphism group: a concrete example**, Seminar on K3 surfaces, *Universiteit Leiden*.
- 2014 **The Néron-Severi group of a K3 surface**, Seminar on K3 surfaces, *Universiteit Leiden*.
- 2013 **Unirationality of del Pezzo surfaces of degree 2**, DIAMANT Symposium, *Lunteren*.
- 2013 **Complex multiplication for elliptic curves**, Seminar on Complex Multiplication, *Universiteit Leiden*.
- 2013 **Conductor of an elliptic curve and modularity**, Seminar on modular forms, *Universiteit Leiden*.

Teaching

- Fall 2019 **Topology**, teaching assistant and exercise sessions coordinator, *JGU Mainz*.
- Fall 2018 **Topology**, teaching assistant and exercise sessions coordinator, *JGU Mainz*.
- Aug 2018 **Elliptic curves**, summer course for master and PhD students (6 lectures), lecturer, *Nesin math village*.
- Spring 2018 **Sheaf cohomology**, with D. C. Veniani, lecturer, *JGU Mainz*.
- Apr 2018 **Elliptic curves in cryptography**, spring course for master students (15 lectures), with Matija Kazalicki, lecturer, *AIMS Senegal, Mbour*.
- Fall 2017 **Schemes and divisors**, with D. C. Veniani, lecturer, *JGU Mainz*.
- Aug 2017 **Elliptic curves**, summer course for master students (6 lectures), lecturer, *Nesin math village*.
- Spring 2017 **Scheme theory** with D. C. Veniani, lecturer, *JGU Mainz*.
- Fall 2016 **Classic algebraic geometry**, with D. C. Veniani, lecturer, *JGU Mainz*.
- Fall 2016 **Number theory**, teaching assistant, *JGU Mainz*.
- Nov 2016 **Elliptic curves in cryptography**, winter course for master students (15 lectures), with Filip Najman, lecturer, *AIMS Senegal, Mbour*.
- Aug 2014 **Elliptic curves**, summer course for master students (6 lectures), lecturer, *Nesin math village*.
- Fall 2013 **Rational points on varieties**, teaching assistant, *Universiteit Leiden*.
- Spring 2013 **Algebra 1**, teaching assistant, *Universiteit Leiden*.
- Fall 2012 **Elliptic curves**, teaching assistant, *Universiteit Leiden*.

Didactic

- May 2018 **History of mathematics**, *Liceo "B. Russell", Milano*.
- Sep 2017 **Didactic experimentation**, *Liceo "G. da Procida", Salerno*.
- Sep 2016 **Didactic experimentation**, *Liceo "G. da Procida", Salerno*.
- Sep 2015 **Didactic experimentation**, *Liceo "G. da Procida", Salerno*.

Languages

Italian (native speaker),

English (fluent),

Dutch (level B2/C1),

German (level B1/B2)

Spanish (basic).