




Francesco Antonio Denisi

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 <https://sites.google.com/view/franden>

 Born 22 December 1993 in Vibo Valentia (Italy)

ACADEMIC POSITIONS

October 2023-present

Postdoc in Algebraic Geometry

Institut de Mathématiques de Jussieu-Paris rive gauche, Université Paris Cité
Mentor: Prof. Olivier Debarre

EDUCATION

October 2023

Ph.D. in Mathematics

Institut Elie Cartan de Lorraine, Université de Lorraine (Vandœuvre-lès-Nancy, France)

- Thesis subject: Positivity on Irreducible Holomorphic Symplectic Manifolds
- Advisor: Prof. Gianluca Pacienza
- Co-advisor: Prof. Giovanni Mongardi

April 2020

Master's degree in Mathematics

Facoltà di Scienze e Tecnologie, Università degli studi di Milano (Milano, Italia)

- Grade: 110/110 cum laude
- Thesis title: Grassmannians Geometry and Torelli Theorems
- Supervisor: Prof. Paolo Stellari

July 2015

Bachelor's degree in Mathematics

Dipartimento di Matematica e Informatica, Università della Calabria (Arcavacata di Rende, Italia)

- Grade: 110/110 cum laude
- Supervisor: Prof. Francesco Polizzi

RESEARCH INTERESTS

Area of research Algebraic geometry.

Specific topics of interest Hyper-Kähler geometry, birational geometry, positivity in algebraic geometry.

PUBLICATIONS

Boucksom-Zariski and Weyl Chambers on Irreducible Holomorphic Symplectic Manifolds, Int. Math. Res. Not. IMRN, in press. Journal: <https://doi.org/10.1093/imrn/rnac252>. arXiv: <https://arxiv.org/abs/2106.03678>.

PREPRINTS

Pseudo-effective classes on projective irreducible holomorphic symplectic manifolds. Submitted. arXiv: <https://arxiv.org/abs/2205.15148>.

Asymptotic base loci on hyper-Kähler manifolds (joint with Ángel David Ríos Ortiz). Submitted. arXiv: <https://arxiv.org/abs/2304.01773>.

INVITED TALKS

- 31/05/2021 Invited speaker at the weekly complex geometry seminar of the "Institut Elie Cartan de Lorraine" (Université de Lorraine).
- 02/12/2021 Invited speaker at the weekly geometry seminar of the "Laboratoire de Mathématiques et Applications" (Université de Poitiers).
- 04/03/2022 Invited speaker at the weekly algebra, topology and geometry seminar of the "Laboratoire J.A. Dieudonné" (Université Côte d'Azur).
- 31/03/2022 Invited speaker at the weekly arithmetic and algebraic geometry seminar of the "IRMA" (Université de Strasbourg).
- 18/10/2022 Invited speaker at the weekly algebra and geometry seminar of the "Alma Mater Studiorum - Università di Bologna".
- 18/11/2022 Topics in hyperkähler geometry: Joint working group's (Bonn-Paris) invited speaker. See here <https://www.erc-hyperk.org/seminars>.
- 07/03/2023 Invited speaker at the weekly algebraic geometry seminar of the "Université de Lille".

INVITED CONFERENCE TALKS

- 20/12/2021 Invited speaker at the workshop "Seminari di Natale 2021", held at the "Università degli studi di Milano".
- 23/05/2022 Invited speaker at the GAeL (Géométrie Algébrique en Liberté) 2022, held at the "Université Paris-Saclay" in Paris.
- 15/09/2022 Invited (junior) speaker at the conference "Hyperkähler varieties and related topics", held at the department of mathematics "Guido Castelnuovo" of "La Sapienza" in Rome.
- September 2023 Invited speaker at the conference "Giornate di Geometria Algebrica e Argomenti Correlati XVI". To be held at the Grand Hotel San Michele (Cetraro, Italy).
- January 2024 Invited speaker at the conference "Fano and Hyperkähler varieties in Genova". To be held at the Department of Mathematics of the University of Genova (Italy).

SEMINARS ORGANIZED

- October 2021 - January 2022 Joint seminar among the universities of Bologna, Chemnitz and Nancy about "Bridgeland stability conditions". Organized together with S. Billi, F. Giovenzana, A. Grossi, M. Pavel, M. Rampazzo.

VISITING PERIODS

- February 14th to 21st, 2022 Guest of Prof. Simone Diverio at the Department of Mathematics "Guido Castelnuovo" of "La Sapienza" (Rome).
- September 2022 until September 2023 Guest of Prof. Giovanni Mongardi at the Department of Mathematics of the "Alma Mater Studiorum - Università di Bologna" (Bologna).

SELECTED CONFERENCES, SCHOOLS AND WORKSHOPS ATTENDED

Algebraic Geometry in Angers, at the "Polytech d'Angers" (Université d'Angers), 21-24 June 2021.

Hausdorff School: "Hyperkähler Geometry", at the Hausdorff center for Mathematics (Universität Bonn), 11-16 September 2021.

"Riposte Armonie": Algebraic Geometry in Cetraro 2021, at the "Grand Hotel San Michele" (Cetraro, Italy), 21-24 September 2021.

Third Udine Algebraic Geometry School on: Derived Categories of Fano Varieties, Hyperkähler Varieties and their Period Maps, held in Udine (Italy), at the "International Centre for Mechanical Sciences" (CISM), 8-12 November 2021.

Workshop "Seminari di Natale 2021", held in Milano (Italy), at the "Università degli studi di Milano", 20-21 December 2022.

Algebraic Geometry: en l'honneur de Claire Voisin, held at the "Institut Henri Poincaré", Paris, 16-22 May 2022.

GAeL (Géométrie Algébrique en Liberté) 2022, held at the "Université Paris-Saclay", Paris, 23-27 May 2022.

C.I.M.E. school "Hyperkähler manifolds and related geometries", held at the Grand Hotel San Michele, Cetraro, Italy, 29 August-2 September 2022.

"Hyperkähler Varieties and Related Topics", held at the department of mathematics "Guido Castelnuovo" of "La Sapienza", Italy, Rome, 12 to 16 September 2022.

"Young perspectives on irreducible holomorphic symplectic manifolds", to be held at the "Institut für Diskrete Strukturen und Symbolisches Rechnen" (Universität Stuttgart), Germany, 13 to 15 February 2023.

"Giornate di Geometria Algebrica e Argomenti Correlati", to be held at the "Grand Hotel San Michele" in Cetraro, Italy, September 2023.

TEACHING EXPERIENCE

At the "Università degli studi di Milano" Teaching Assistant at the faculty of Agricultural and Food Sciences, during the A.Y. 2016/2017, for the course "Mathematics and Statistics".

- Hours: 40

Teaching Assistant at the faculty of Agricultural and Food Sciences, during the A.Y. 2017/2018, for the "Mathematics and Statistics" course.

- Hours: 50

At the "Université de Lorraine" Teaching Assistant at the "Polytech-Nancy" for the "Algèbre" course (for engineers), during the A.Y. 2021/2022.

- Hours: 26

Teaching Assistant, during the A.Y. 2022/2023 for the course "Introduction au programme des modèles minimaux", during the "Masterclass M2 Géométrie et Probabilités".

- Hours: 1.5

At the "Alma Mater Studiorum-Università di Bologna" Tutor for the "Geometria 2" course of the "Corso di laurea in Matematica", during the A.Y. 2022/2023.

- Hours: 30

LANGUAGES

English: good knowledge

French: good knowledge

Italian: mother tongue

