



# Alessandro Frassinetti

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**Date of birth:** 13/03/1999 | **Nationality:** Italian | **Email address:** [frassinetti@dima.unige.it](mailto:frassinetti@dima.unige.it)

## ● EDUCATION AND TRAINING

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11/2023 – CURRENT Genova, Italy

**PHD IN MATHEMATICS** Università di Genova

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I currently follow the first year of PhD under the supervision of **Fabio Tanturri**. One of the main lines of research I am working on is the study of **K3 surfaces**, in particular the birational classification of the **moduli space of polarized K3 surfaces (with marked points)**.

Moreover, I have been part of a reading group on **deformation theory** and of one the study of modular sheaves over **Hyperkähler manifolds**, both organized by the algebraic geometry group of the University of Genova.

To enrich my preparation, I am following a PhD course called "Positivity in algebraic geometry" taught by Professor **Victor Lozovanu**.

10/2021 – 07/2023 Bologna, Italy

**MASTER'S DEGREE IN MATHEMATICS** Università di Bologna

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**Final grade** 110 cum laude | **Thesis** Mukai models for K3 surfaces in low degrees

10/2018 – 07/2021 Bologna, Italy

**BACHELOR'S DEGREE IN MATHEMATICS** Università di Bologna

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**Final grade** 110 cum laude | **Thesis** Estensioni trascendenti di campi

## ● CONFERENCES AND SEMINARS

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27/02/2024 – 16/04/2024 Università di Genova

**Seminar on Deformation Theory**

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I gave two lectures about the theory of obstructions as a part of a reading group on the book "**Deformations of algebraic schemes**" by E. Sernesi organized by the algebraic geometry group of the University of Genova.

30/01/2024 Università di Genova

**Seminar on modular sheaves over Hyperkähler manifolds**

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I gave two lectures for a working group about the study of modular sheaves on Hyperkähler manifolds organized by the algebraic geometry group of the University of Genova.

22/01/2024 – 26/01/2024 Genova, Italia

**Fano and Hyperkähler varieties in Genova**

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I took part in a conference about incoming results and open problems for the state of the art around the field of Fano and holomorphic symplectic varieties.

**Link** <https://sites.google.com/view/fanohkingenova/home-page?authuser=0>

11/09/2023 – 15/09/2023 Bonn, Germany

**School: K3 surfaces, Hyperkähler manifolds, and cubic fourfolds**

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I had the opportunity to join a school in algebraic geometry organized in Bonn. There I followed four minicourses for young researchers and some talks about the subjects in the title.

**Link** [https://www.mathematics.uni-bonn.de/him/programs/past/tp\\_2023\\_09#wks3](https://www.mathematics.uni-bonn.de/him/programs/past/tp_2023_09#wks3)

22/05/2023 – 26/05/2023 Università di Bologna

## **Quiver Representations, Quiver Varieties and Combinatorics**

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Link <https://events.unibo.it/bip-quiver/summer-school>

30/03/2023 Università di Bologna

## **Seminar on homogeneous varieties**

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I gave a lecture on the Borel-Bott-Weil theorem in aid of the PhD course "Fano varieties of K3 type" held by my master's thesis supervisor Enrico Fatighenti.

26/01/2023 – 02/02/2023 Università di Bologna

## **Seminar on Hodge theory**

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I gave two lectures about Kähler's condition and its consequences in complex algebraic geometry as a part of a reading group on Hodge theory organized by the algebraic geometry group of the University of Bologna.

## ● **WORK EXPERIENCE**

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10/2021 – 02/2023 Bologna, Italy

### **TUTOR UNIVERSITÀ DI BOLOGNA**

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I performed 150 hours of weekly tutorials for linear algebra courses belonging to different bachelor's degrees.