Marco Ramponi

Contact

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Current position

Research associate (2018–2019)
Universität Augsburg
>   Institut für Mathematik
>   Mentor: Prof. Dr. Marc Nieper-Wißkirchen

Past positions

Postdoctoral fellowship – Einstein Foundation Berlin (2017)
Humboldt-Universität zu Berlin
>   Institut für Mathematik
>   Mentor: Prof. Dr. Gavril Farkas

Phd scholarship – French government (2014–2017)
Université de Poitiers
>   Laboratoire de Mathématiques et Applications

Degrees

Ph.D. Mathematics (2017)
Université de Poitiers
>   Defended on December 20, 2017.
>   Ph.D. Supervisor: Prof. Dr. Alessandra Sarti

MSc. Mathematics (2014)
Universitá degli Studi di Milano
>   Obtained on April 8, 2014. Final mark: 110/110 cum laude[1]
>   Thesis advisors: Prof. Dr. Alessandra Sarti & Prof. Dr. Paolo Stellari

BSc. Mathematics (2012)
Universitá degli Studi di Milano
>   Obtained on February 27, 2012.

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[1]In the Italian grading system, 110/110 is the maximum grade. For outstanding results, "cum laude" is
added to the maximum grade.

Research interests

Algebraic geometry, more specifically: *Brill-Noether theory* and its applications to the study of the geometry of *moduli spaces* of curves and surfaces, with special emphasis for *K3* and *abelian surfaces*; *linear systems* and *vector bundles* on algebraic varieties and *stability* problems; *Gauss-Wahl maps*.

Publications and preprints

D. Agostini, M. Ramponi, *Syzygies of Kummer surfaces*, (in preparation)

M. Ramponi, *A note on Nikulin surfaces and their moduli spaces*, arXiv:1807.04217

M. Ramponi, *Special divisors on curves on K3 surfaces carrying an Enriques involution*, Manuscripta math. (2017) 153(1), 315-322

M. Ramponi, *Gonality and Clifford index of curves on elliptic K3 surfaces with Picard number two*, Archiv der Mathematik (2016), 106(4), 355-362

Scientific visits

Humboldt-Universität zu Berlin
May 2017, Berlin, Germany

Universitá degli Studi di Roma Tor Vergata
March-May 2017, Rome, Italy

Universitá degli Studi di Roma Tor Vergata
January 2015, Rome, Italy

Invited talks at conferences

YPAG 2019
University of Bayreuth
April 3–5, 2019, Bayreuth, Germany
    "On Nikulin K3 surfaces and their moduli"

GAGC 2017 (short talks session)
Rencontre GAGC 2017 at CIRM
December 11–15, 2017, CIRM, Luminy, France
    "On the geometry of Nikulin K3 surfaces"

Workshop of Algebraic Geometry
Universitá degli Studi di Milano, December 21-22, 2015, Milan, Italy
"Brill-Noether theory of curves on special elliptic K3 surfaces"

Invited talks at research seminars

Philipps-Universität Marburg
Arbeitsgruppe algebraische und komplexe Geometrie

July 11, 2017, Marburg, Germany
  "K3 surfaces and special divisors on algebraic curves"

Université de Poitiers
Séminaire de groupes, algèbre et géométrie
June 15, 2017, Poitiers, France
  "Surfaces K3 et théorie de Brill-Noether"

Humboldt-Universität zu Berlin
Forschungsseminar Algebraische Geometrie
May 24, 2017, Berlin, Germany
  "Curves on K3 double covers of Enriques surfaces"

Universitá degli Studi di Roma Tor Vergata
Seminar of Algebraic Geometry
April 18, 2017, Rome, Italy
  "Curves on K3 double covers of Enriques surfaces"

Université de Poitiers
Groupe de travail
September 2016, Poitiers, France
  "Positivité en géometrie algebrique"

University of Augsburg
Oberseminar zur Algebra und Zahlentheorie
June 29, 2016, Augsburg, Germany
  "K3 surfaces and special divisors on algebraic curves"

Université de Poitiers
Groupe de travail
January 2016, Poitiers, France
  "Fibrés de Lazarsfeld-Mukai et applications"

Université de Poitiers
Groupe de travail
October 2015, Poitiers, France
  "K3 surfaces, automorphisms and the Clifford index"

Universitá degli Studi di Roma Tor Vergata
Seminar of Algebraic Geometry
January 26, 2015, Rome, Italy
  "K3 surfaces, automorphisms and Brill-Noether theory"

Université de Poitiers
Groupe de travail
February 2014, Poitiers, France
  "Curves on 2-elementary K3 surfaces (after K. Watanabe)"

Invited lectures

Universitá degli Studi Roma Tre
Seminar for the Phd course "Selected topics on K3 surfaces" (by F. Viviani)
May 4, 2017, Rome, Italy

"On the Brill-Noether theorem via K3 surfaces"

Palazzone di Cortona
Pre-course at SMI Cortona summer school
August, 2015, Cortona, Italy
  "A crash course on K3 surfaces and the Torelli theorem"

Dissemination of scientific knowledge

University of Poitiers
Cérémonie de remise de diplômes
December 14, 2018, Poitiers, France
  "L'espace des surfaces K3"

Grants, awards and distinctions

Poitiers University Award
€600 - Prix de thèse 2018 ([2])

Clay Mathematics Institute
$1000 - Travel grant Bucharest IAG (September 2017)

GDRI "Representation Theory" 2016-2019
€800 - Visiting Berlin Humboldt University (May 2017)

Ecole Doctorale S2IM - Mobilité Internationale
€700 - Visiting Berlin Humboldt University (May 2017)

Laboratoire Ypatia des Sciences Mathématiques
€3000 - Visiting University of Rome Tor Vergata (March-May 2017)

Ecole Doctorale S2IM - Mobilité Internationale
€2000 - Visiting University of Rome Tor Vergata (January 2015)

Organized and co-organized activities

Oberseminar zur Algebra und Zahlentheorie
2018–2019. University of Augsburg, Germany

Research working group "derived categories and stability conditions"
Spring 2018. University of Augsburg, Germany

Ph.D. students seminar "Seminaire en Liberté"
2014–2017. LMA, Poitiers, France

Conference "Et Aprés la Thèse?"
June 26, 2015, Université de Poitiers, Poitiers, France

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[2]Awarded for a distinguished PhD thesis in science for the academic year 2017–2018

Meetings, workshops and schools attended

Workshop on Complex Algebraic Geometry – Pirola 60th
February 5–9, 2018, Barcelona, Spain

Géométrie algébrique et géométrie complexe 2017
December 11–15, 2017, CIRM, Luminy, France

Instruments of algebraic geometry
September 11–22, 2017, Bucharest, Romania

Modern algebra and classical geometry Together with Edoardo Sernesi
June 21–24, 2017, Trento, Italy

Mediterranean Complex Projective Geometry
May 23–27, 2016, Carry-le-Rouet, France

Géométrie algébrique et géométrie complexe 2015
November 23–27, 2015, CIRM, Luminy, France

Cox Rings and Mori Dream Spaces
September 6–12, 2015, Lukecin, Poland

SMI Cortona 2015
August 3–14, 2015, Cortona, Italy

ACM Bundles on Algebraic Varieties
June 15–19, 2015, Ankara, Turkey

Workshop on geometry and arithmetic of hyperkhler manifolds
February 9–11, 2015, IAG, Hannover, Germany

Géométrie algébrique et géométrie complexe 2014
November 24–28, 2014, CIRM, Luminy, France

SMI Perugia 2014
July 28 - August 28, 2014, Perugia, Italy

Around Torelli's theorem for K3 surfaces
October 25 - November 1, 2013, IRMA, Strasbourg, France

Teaching (as main lecturer)

Algebraic geometry II (2018-2019)
Lecturer. MSc course (7 students)
   University of Augsburg

Algebraic geometry I (2018-2019)
Lecturer. MSc course (10 students)
   University of Augsburg

Special topics in algebra and geometry (2017-2018)
Lecturer. MSc course (6 students)
   University of Augsburg

Teaching (as an assistant)

Seminar in harmonic analysis (2017-2018)
MSc course (16 students)
   University of Augsburg

Methodologie M2 (2015-2016)
MSc course (5 students)
   Université de Poitiers

Geometria 1 (2012-2013)
BSc course (180 students)
   University of Milan

Students supervision

Claudia Fevola (2019)
MSc thesis (in preparation)
   University of Augsburg and Universitá degli Studi di Napoli Federico II

Service and responsabilities

Elected member of the mathematics department council (2016–2017)
Laboratoire de Mathématiques et Applications
Université de Poitiers

Elected representative of PhD students of the Doctoral School S2IM (2014–2017)
Ecole Doctorale Sciences et Ingénierie pour l'Information et Mathématiques
Université de Poitiers

Personal skills

Computer skills
Basic knowledge of C, Java and HTML code

Languages
Italian (native)
English (fluent)
French (fluent)
Greek (advanced intermediate)
German (early intermediate, learning)

Referees

Gabi Farkas
Humboldt University of Berlin (farkas@math.hu-berlin.de)

Andreas Leopold Knutsen

University of Bergen (andreas.knutsen@math.uib.no)

Marc Nieper-Wisskirchen
University of Augsburg (marc.nieper-wisskirchen@math.uni-augsburg.de)

Alessandra Sarti
University of Poitiers (Alessandra.Sarti@math.univ-poitiers.fr)