

Stefano Filipazzi

Born: 1990.
Nationality: Italian.

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Research Interests

Algebraic geometry, with main focus on: birational geometry, Minimal Model Program, moduli theory, positive characteristic methods, vanishing theorems.

Education

August 2014 - May 2019: Ph.D. in Mathematics, University of Utah.
Advisor: Christopher D. Hacon.
Thesis: *Generalized pairs in birational geometry*.

October 2012-July 2014: Master's student in mathematics at Università degli Studi di Pavia.
Grade: 110/110, cum laude.
Advisors: G. Farkas, G.P. Pirola.
Thesis: *The tautological ring of a jacobian*.

October 2009-July 2014: undergraduate student in Sciences and Technologies class at IUSS, Institute for Advanced Study of Pavia.
Grade: "Excellent".
Advisor: A. Canonaco.
Thesis: *An introduction to derived categories: the Bondal–Orlov reconstruction theorem*.

October 2013-May 2014: Master's student in mathematics at Humboldt Universität zu Berlin via Erasmus exchange program

October 2009-July 2012: Bachelor's student in mathematics at Università degli Studi di Pavia.
Grade: 110/110, cum laude.
Advisor: G.P. Pirola.
Thesis: *Dal problema di Hermite al concetto di dimensione essenziale*.

Pre-prints and Publications

Strong (δ, n) -complements for semistable morphisms, with J. Moraga, preprint, arXiv: 1810.01990 [math.AG], submitted.

On a generalized canonical bundle formula and generalized adjunction, preprint, arXiv: 1807.04847 [math.AG], submitted.

Some remarks on the volume of log varieties, preprint: arXiv: 1804.10971 [math.AG], to appear in Proceedings of the Edinburgh Mathematical Society.

Boundedness of log canonical surface generalized polarized pairs, Taiwanese J. Math. 22 (2018), no. 4, 813-850, DOI 10.11650/tjm/171204.

An example of Berglund–Hübsch mirror symmetry for a Calabi–Yau complete intersection, with F. Rota, Matematiche (Catania) 73 (2018), no. 1, 191-209, DOI 10.4418/2018.73.1.14.

Generic vanishing fails for surfaces in positive characteristic, Boll. Unione Mat. Ital. 11 (2018), no. 2, 179-189, DOI 10.1007/s40574-017-0120-6.

Invited Talks

Seminar Talks

November 2018, Johns Hopkins University, *On a generalized canonical bundle formula and generalized adjunction*.

October 2018, Princeton University, *On a generalized canonical bundle formula and generalized adjunction*.

October 2018, University of Utah, *On a generalized canonical bundle formula and generalized adjunction*.

October 2018, UC San Diego, *On a generalized canonical bundle formula and generalized adjunction*.

May 2017, SISSA Trieste, *Some facts about generalized polarized pairs*.

May 2017, Università degli Studi di Pavia, *Generic vanishing fails for surfaces in positive characteristic*.

Conference and Workshop Talks

December 2018, London-Tokyo Workshop in Birational Geometry II at Imperial College, *On a generalized canonical bundle formula and generalized adjunction*.

May 2018, Midwest Algebraic Geometry Graduate Conference at UIC, *Some facts about generalized pairs*.

April 2018, AMS Sectional Meeting at Portland State University, *Generic vanishing fails for surfaces in positive characteristic*.

Posters

October 2018, WAGS at UO, *On a generalized canonical bundle formula*.

June 2018, GAeL XXVI, Strasbourg, France, *Boundedness of log canonical surface generalized pairs*.

October 2017, WAGS at UCLA, *Generic vanishing fails for surfaces in positive characteristic*.

June 2017, Como, Italy, *Generic vanishing fails for surfaces in positive characteristic*.

Conferences and Workshops Attended

April 2019, Berkeley (CA), USA, WAGS.

January-February 2019, Berkeley (CA), USA, MSRI Introductory Workshop: *Derived Algebraic Geometry and Birational Geometry and Moduli Spaces*.

December 2018, London, UK, *London-Tokyo Workshop in Birational Geometry II*.

October 2018, Eugene (OR), USA, WAGS.

June 2018, Strasbourg, France, GAeL XXVI.

May 2018, Chicago (IL), USA, *Midwest Algebraic Geometry Graduate Conference*.

April 2018, Portland (OR), USA, *AMS Sectional Meeting at PSU*.
 March 2018, San Francisco (CA), USA, *WAGS*.
 February 2018, Barcelona, Spain, *Workshop in Complex Algebraic Geometry*.
 October 2017, Los Angeles (CA), USA, *WAGS*.
 June 2017, Como, Italy, *Linear Systems on Irregular Varieties*.
 April 2017, Taipei, Taiwan, *Singularities, Linear Systems, and Fano Varieties*.
 July 2016, Salt Lake City (UT), USA, *Higher Dimensional Algebraic Geometry*.
 May 2016, Chicago (IL), USA, *Local and Global Methods in Algebraic Geometry*.
 February 2016, Salt Lake City (UT), USA, *Unramified Cohomology, Derived Categories, and Rationality*.
 October 2015, Seattle (WA), USA, *WAGS*.
 July 2015, Salt Lake City (UT), USA, *AMS Summer Research Institute on Algebraic Geometry*.
 June-July 2015, Catania, Italy, *Pragmatic*.
 February 2015, Davis (CA), USA, *WAGS*.
 December 2013, Bedlewo, Poland, *Topology and Geometry of Configuration Spaces*.

Fellowships and Academic Distinctions

Academic year 2018-2019: University of Utah Graduate research Fellowship (fellowship awarded by the University of Utah; 12 to 15 awards given annually across all graduate programs).

October 2009-July 2014: fellow at Almo Collegio Borromeo, merit alumni (the position as a student of the College is assigned through a national competition; the confirmation of the fellowship is on a merit base).

October 2009-July 2014: merit alumni at IUSS, Institute for Advanced Study of Pavia (fellowship assigned by the Institute for Advanced Studies of Pavia through a national competition; the confirmation of the fellowship is on a merit base).

October 2013-May 2014: awarded with Erasmus grant to write the master thesis in mathematics at Humboldt Universität zu Berlin.

May 2009: finalist at Italian individual National Mathematical Olympiad, awarded with bronze medal.

May 2009: finalist at Italian school-teams National Mathematical Olympiad.

May 2008: finalist at Italian school-teams National Mathematical Olympiad.

Teaching

University of Utah

Fall 2017: Calculus 2 (1220), Instructor.

Fall 2016: Calculus 1 (1210), Instructor.

Fall 2015 and Spring 2016: College Algebra for Business and Social Sciences (1090), Instructor.

Fall 2014 and Spring 2015: Engineering Calculus 1 (1310), Teaching Assistant.

Università degli Studi di Pavia

Spring 2012 and Spring 2013: Geometry 1, Teaching Assistant.

Fall 2011 and Fall 2102: Linear Algebra, Teaching Assistant.

Outreach

2018-2019: co-founder and co-organizer of the mentorship program for incoming graduate students.

2017-2018: co-organizer of the recruitment weekend.

2016-2018: organizer of the Algebraic Geometry Student Seminar.

2015-2018: contact for prospective and incoming international students.

Other Information

Languages: Italian (native), English (fluent), German (intermediate).

Computer skills: Linux (intermediate), C (intermediate), Macaulay2 (intermediate), Matlab (intermediate), \LaTeX (intermediate), Open Office (intermediate), Microsoft Windows (intermediate).