

Raffaele Marco Carbone

Personals

Born in Segrate (Milano, Italy) on July 30, 1992



Studies and degrees

- PhD in Algebraic Geometry at Università di Roma Tre (2016-2020)
PhD Thesis: The Norm map on the compactified Jacobian, the Prym stack and spectral data for G-Higgs pairs (Advisor: Filippo Viviani)
- Double Master degree *cum laude* in Mathematics in ALGANT Consortium.
First year: University of Milan, 2014-2015. Second year: University of Duisburg-Essen, 2015-2016.
Master Thesis: *The resolution of the diagonal and the derived category on some homogeneous spaces* (Advisor: Marc N. Levine)
- *Laurea* degree in Mathematics (110/110 and *cum laude*) at the University of Milan on October 23rd, 2014
- *Diploma di maturità con lode* at Liceo Scientifico Statale "Alessandro Volta", Milano, in 2011

List of publications

- Carbone, R.M., The direct image of generalized divisors and the Norm map between compactified Jacobians. *Geom Dedicata* **216**, 14 (2022). <https://doi.org/10.1007/s10711-022-00677-8>
- Carbone, R. M., The Norm map on the compactified Jacobian, the Prym stack and spectral data for G-Higgs pairs, [arXiv:2006.13034](https://arxiv.org/abs/2006.13034) [2020]

Teaching activity

- *Assistant professor* for GE220 course (Topology) at University of Roma Tre, with prof. M. Melo (Feb-Jun 2019)
- *Assistant professor* for GE220 course (Topology) at University of Roma Tre, with prof. M. Pontecorvo (Feb-Jun 2018)

- *Tutoring for Algebra 1 course* at the University of Milan under the supervision of professors Luca Barbieri Viale and Maria Grazia Bianchi (Nov 2014-Jun 2015)

Participation to Seminars and other academic activities

- *Seminar on K3 surfaces*, under the supervision of Prof. Filippo Viviani, at Università Roma Tre (Oct-Nov 2018)
- *Lecture course on Minimal Model Program*, under the supervision of Prof. Angelo Lopez, at Università Roma Tre (March-May 2017)
- *Reading course on Deformation Theory*, under the supervision of Prof. Edoardo Sernesi, at Università Roma Tre (March-May 2017)
- *Seminar on Morse Theory*, under the supervision of Prof. Marc N. Levine, at University of Duisburg-Essen (April 2016-2017)
- *Introduction to p-adic analysis and p-adic zeta functions*, under the supervision Dr. A. Pal and Dr. C. de Vera Piquero, at the University of Duisburg-Essen (Oct 2015-Jan 2016)
- *Seminar on Topos Theory* under the supervision of professor Sandra Mantovani at University of Milan (July 2015)
- *Seminar on Commutative Algebra* under the supervision of prof. Luca Barbieri Viale at University of Milan (July 2015)

Work outside Academia

- *High school teacher* at Liceo Scientifico “Pio XI”, Rome (Sept 2021-Jun 2022)
- *High school teaching internship*, Liceo Scientifico “Alessandro Volta”, Milan (Mar-Apr 2014)

Languages skills

- English: my entire ALGANT Master Course was in English, so I can understand and speak it properly.