

# Ivan Martino | Curriculum Vitæ

Department of Mathematics – Royal Institute of Technology  
Kungliga Tekniska Högskolan, (KTH)

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## Employment History

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<b>Researcher – Forskare</b> <i>Dept. of Mathematics, Royal Institute of Technology – Kungliga Tekniska Högskolan, (KTH)</i>	<b>Sweden</b> From Feb 2019
<b>Wallenberg Post-doctoral Fellow and Zelevinsky Research Instructor</b> <i>Department of Mathematics, Northeastern University</i>	<b>USA</b> Sept 2016 – Jan 2019
<b>Swiss National Science Foundation (SNSF) Post-doc</b> <i>Department of Mathematics, University of Fribourg</i>	<b>Switzerland</b> Sept 2014 – Sept 2016

## Education

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<b>PhD in Mathematics</b> <i>Stockholm University, Supervisors: Anders Björner, Torsten Ekedahl.</i>	<b>Sweden</b> May 28, 2014
<b>MSc in Mathematics</b> <i>University of Catania</i>	<b>Italy</b> July 2009

## Awards and Grants

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<b>Wallenberg Post-doctoral Fellowship</b> <i>Knut och Alice Wallenbergs Stiftelse</i>	<b>Sweden</b> May 2015
<b>SNSF Post-doc fellowship</b> <i>Swiss National Science Foundation</i>	<b>Switzerland</b> Sept 2014
<b>Stiftelsen GS Magnusons fond - Travel grant</b> <i>Kungliga Vetenskapsakademien (KVA).</i>	<b>Sweden</b> 2009–2014
<b>Christer Lech prize 2013</b> <i>Christer Lech donation.</i>	<b>Sweden</b> Oct 2013
<b>Knut och Alice Wallenbergs Stiftelsen resefond - Travel grant</b> <i>Svenska matematikersamfundet.</i>	<b>Sweden</b> 2012
<b>Angelo Marcello Anile award 2009</b> <i>Angelo Marcello Anile Association.</i> Award for the best Master thesis among Mathematics and Computer Science at University of Catania.	<b>Italy</b> Sept 2009
<b>ERSU - Travel grant</b> <i>Ente Regionale per il diritto allo Studio Universitario (ERSU).</i>	<b>Italy</b> Mar 2007
<b>Fellowship for Bachelor and Master studies</b> <i>Catania Institute of Advanced Study (SSC).</i> Only 10 fellowships per year among the class of Science at University of Catania.	<b>Italy</b> 2004-2009
<b>INdAM Fellowship for Bachelor Studies (declined)</b> <i>INdAM, Italian Institute of Advanced Mathematics - Fellowship.</i> Only 10 fellowships per year among the top students of mathematics in Italy.	<b>Italy</b> Sept 2004

## Long term visits

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<b>Ennio De Giorgi Mathematical Research Center</b> <i>Perspectives in Lie Theory - Program</i>	<b>Italy</b> Jan 19 – Feb 28, 2015
<b>Scuola Normale Superiore</b> <i>Visiting the Algebraic Geometry group</i>	<b>Italy</b> Sept 2012 – Jan 2013

## Research Events Organization

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- Algebra meets Combinatorics in Neuchatel, Neuchatel (CH), 15 – 17 July, 2019;
- New developments in matroid theory, Bern (CH), 9 – 13 July, 2019;
- REU - Independent Research Experience for Undergraduates, Northeastern University (USA), Apr – Sept 2018;
- Topics in Toric Geometry, Northeastern University (USA), Apr 21 – 22, 2018;
- Lectures Series in Mathematics – Aaron Lauda, Northeastern University (USA), Feb 21 – 23, 2018;
- Matroids in Boston, Northeastern University (USA), Sept 11 – 15, 2017;
- ET'nA 2017 - Encounter in Topology 'n Algebra, Catania (IT), May 31 – June 4, 2017;
- Combinatorics, at the crossroads of Algebra, Geometry, and Topology, Bowdoin College (USA), Sep 23 – 25, 2016;
- Topological Methods, Spring 2015;
- Etna Triangulations & Algebra Meeting, Catania (IT), Feb 20 – 24, 2013;
- After Pragmatic 2011, Stockholm University (SW), Dec 12, 2011;

## Appointment and board participations

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<b>Scientific Consultant</b> <i>Consultant for FTI Consulting.</i>	<b>USA</b> Oct 2017
<b>Faculty advisor of the Math Club at Northeastern University</b> <i>The Math Club is a mathematical hub for STEM undergrads.</i>	<b>USA</b> Sept 2017 – Aug 2018
<b>Pick My Brain research seminar</b> <i>Organizer of the Pick My Brain seminar.</i>	<b>USA</b> Sept 2017 – Dec 2018
<b>Scientific Expert</b> <i>Expert for the best Diploma Thesis in the Catania Institute of Advanced Study (SSC).</i>	<b>USA</b> Nov 2016
<b>Diversity committee support</b> <i>I support the diversity committee of the College of Science of Northeastern University.</i>	<b>USA</b> Sept 2016 - Dec 2018
<b>GASC research seminar</b> <i>Organizer of Geometry, Algebra, Singularities, Combinatorics (GASC) seminar.</i>	<b>USA</b> Sept 2016 - Dec 2018
<b>SM'ART - Seminar on Matroids in Algebra, Repr. theory and Topology</b> <i>Lessons on background in matroid theory and commutative algebra.</i> Borel Seminar 2016, Les Diablerets, Switzerland.	<b>Switzerland</b> Jan 24-29, 2016
<b>KAPPA 2013 - Mathematical Competition</b> <i>Co-organization of the problem solving mathematical competition Kappa 2013.</i>	<b>Sweden</b> 2012-2013
<b>Participation to the Swedish Int. Development Cooperation Agency (SIDA) project</b> <i>Supervising master students in Mathematics for SIDA.</i> SIDA, the National University of Rwanda (NUR) and Stockholm University offer to supervise selected students at NUR for a master thesis in Mathematics.	<b>Sweden</b> From Sept 2012

## Supervisioning and Mentoring

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**2019.** Alessio Borzì (Master); **2018.** Zheyang Yu (Master), Walker Miller-Breetz (REU), Benjamin Bonenfant (REU), Zheyang Yu (REU), Kevin Su (REU), Christina Nguyen (REU), Noah Lichtblau (REU), Felipe Castellano-Macias (REU), Alon Duvall (REU), Timothy Jackman (REU), Jai Aslam (Undergraduate, form Aug 2018 PhD student at NC State); **2017.** Jean Harerimana (Master); **2016.** Alexis Manishimwe (Master), Janvier Ndahimana Rukundo (Master); **2015.** Victor Lisinski (Extraseminar student, currently PhD student at University of Oxford); **2014.** Niklas Hedberg (Undergraduate).

## Referral and reviewing

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**Referee** for Advances in Mathematics, Journal of Combinatorial Theory (Series A), Journal of Number Theory, Rendiconti del Circolo Matematico di Palermo, Journal of Difference Equations and Applications, Symmetry, Journal on the Theory of Ordered Sets and its Applications (Order), and Journal of Integer Sequences.

**Review** for *zbMATH* and for *Mathscinet*.

## Selected Talks

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**2019:** Stockholm U (Problem-Solving), KTH (Combinatorics), Uppsala U (Geometry); **2018:** Northeastern U (*Geometry, Physics and Representation Theory*), Maurice Auslander Conference, Florida State U; **2017:** Brown U (Algebra and Algebraic Geometry); **2016:** U de Neuchâtel (Colloquium), Borel Seminar (Matroids in Algebra, Repr. Th. and Top.); **2015:** Fribourg (Oberseminar Geometrie), UCLA, Caltech, U of British Columbia, UC Berkeley, San Francisco State U, U of Miami, Yale; **2014:** Fribourg (Oberseminar Geometrie), IHP(Séminaire Autour des Cycles Algébriques); **2013:** Aalto U (Combinatoric), Christer Lech Lectures; **2012:** MSRI, Vila Real (Iberian Meeting on Numerical Semigroups); **2011:** After Pragmatic Mini-Conference, Linköping (Swedish Mathematical Society), Raleigh (SIAM).

## Five Selected publications

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- *On the codimension of Noether-Lefschetz loci for toric threefolds*, with Valeriano Lanza, Comm. in Contemporary Mathematics (2019) 1950037 (5 pages), World Scientific Publishing Company, DOI: 10.1142/S0219199719500378;
- *Cohen-Macaulay Property of pinched Veronese Rings*, with Ornella Greco, J. Commut. Algebra (2019), Advance publication, <https://projecteuclid.org:443/euclid.jca/1552464033>;
- *Finite Groups Generated in Low Real Codimension*, with Rahul Singh, Linear Algebra and Its Applications 570C (2019) pp. 245–281, <https://doi.org/10.1016/j.laa.2019.01.004>;
- *The Ekedahl invariants for finite groups*, J. Pure Appl. Algebra 220 (2016), no. 4, 1294–1309, 10.1016/j.jpaa.2015.08.019;
- *Syzygies of Veronese modules* with Ornella Greco, Comm. Algebra 44 (2016), no. 9, 3890–3906, <https://doi.org/10.1080/00927872.2015.1027389>;