

# Ivan Martino | Curriculum Vitæ

Department of Mathematics, Northeastern University,  
360 Huntington Avenue, Boston, MA 02115, USA

✉ ivanmartino.math@gmail.com • 🌐 www.ivanmartino.com

Updated on December 22, 2018.

## Employment History

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| <b>Wallenberg Post-doctoral Fellow and Zelevinsky Research Instructor</b><br><i>Department of Mathematics, Northeastern University</i> | <b>USA</b><br>From Sept 2016    |
| <b>Swiss National Science Foundation (SNSF) Post-doc</b><br><i>Department of Mathematics, University of Fribourg</i>                   | <b>Switzerland</b><br>2014–2016 |

## Education

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

## Awards and Grants

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

## Long term visits

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

## Research Events Organization

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### Upcoming.....

**New developments in matroid theory** **Switzerland**  
*Organizer - together with Alex Fink (Queen Mary) and Luca Moci (Bologna)* 9 – 13 July, 2019  
Mini-symposium at the SIAM - Conference on Applied Algebraic Geometry, 9-13 July, 2019, Bern (CH).

### Past Events.....

**REU - Independent Research Experience for Undergraduates** **USA**  
*Organizer - together with Emanuele Macrì (Northeastern University)* Apr - Sept, 2018  
Funded by NSF, as DMS-1645877.

**Topics in Toric Geometry** **USA**  
*Organizer - together with Emanuele Ventura (Texas A&M University) - of an AMS Sp. Ses.* Apr 21 – 22, 2018  
The special session will take place at AMS 2018 Fall Eastern Sectional Meeting at Northeastern University (Boston).

**Lectures Series in Mathematics – Aaron Lauda** **USA**  
*Organizer - together with Emanuele Macrì (Northeastern University)* Feb 21 – 23, 2018  
Funded by NSF, as DMS-1645877.

**Matroids in Boston 2017** **USA**  
*Organizer of a thematic week on Matroid Theory at Northeastern University* Sept 11 – 15, 2017

**ET'nA 2017 - Encounter in Topology 'n Algebra** **Italy**  
*Organizer - together with Alex Suciu - of a workshop and a summer school* May 31 – June 4, 2017  
Scuola superiore di Catania, Italy

**Combinatorics, at the crossroads of Algebra, Geometry, and Topology** **USA**  
*Organizer - together with Alex Suciu - of a workshop and a Special Session of the AMS* Sep 23 – 25, 2016  
The workshop took place at Northeastern University (Boston) and the Special Session at the AMS 2016 Fall Eastern Sectional Meeting in Bowdoin College (Brunswick).

**Topological Methods - Thematic semester** **Switzerland**  
*Organizer - together with Emanuele Delucchi - of a Thematic semester Topological Methods.* Spring 2015  
Funded by Swiss National Science Foundation.

### During my PhD.....

**ETAM 2013** **Italy**  
*Local organizer of Etna Triangulations & Algebra Meeting.* Feb 20 – 24, 2013

**After Pragmatic 2011 - Mini Conference** **Sweden**  
*Organization of After Pragmatic.* Dec 12, 2011

## Appointment and board participations

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**Scientific Consultant** **USA**  
*Consultant for FTI Consulting.* Oct 2017

**Faculty advisor of the Math Club at Northeastern University** **USA**  
*The Math Club is a mathematical hub for STEM undergrads.* From Sept 2017

**Pick My Brain research seminar** **USA**  
*Organizer of the Pick My Brain seminar.* From Sept 2017  
Other organizers: Pablo Soberón, Robin Walters.

**Scientific Expert** **USA**  
*Expert for the best Diploma Thesis in the Catania Institute of Advanced Study (SSC).* Nov 2016

**Diversity committee support** **USA**  
*I support the diversity committee of the College of Science of Northeastern University.* From Sept 2016

**GASC research seminar** **USA**  
*Organizer the Geometry, Algebra, Singularities, Combinatorics (GASC) seminar.* From Sept 2016  
Other organizers: Chris Beasley, Ana-Maria Castravet, Tony Iarrobino, Egon Schulte and Alex Suciu.

**SM'ART - Seminar on Matroids in Algebra, Repr. theory and Topology***Lessons on background in matroid theory and commutative algebra.**Borel Seminar 2016, Les Diablerets, Switzerland.***Switzerland***Jan 24-29, 2016***Scientific Mentor***Mentor for students at the Catania Institute of Advanced Study (SSC).***Italy***Sept 2015***KAPPA 2013 - Mathematical Competition***Co-organization of the problem solving mathematical competition Kappa 2013.***Sweden***2012-2013***Participation to the Swedish Int. Development Cooperation Agency (SIDA) project***Supervising master students in Mathematics for SIDA.**SIDA, the National University of Rwanda (NUR) and Stockholm University offer to supervise selected students at NUR for a master thesis in Mathematics.***Sweden***From Sept 2012*

## 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*, *Journal on the Theory of Ordered Sets and its Applications (Order)*, and *Journal of Integer Sequences*.

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

## Supervising and Mentoring

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### Research Experience for Undergraduates – students.....

**REU Student – Alon Duvall***Northeastern University, Together with Brian Hepler.***USA***Sept 2018***REU Student – Timothy Jackman***Northeastern University, Together with Whitney Drazen.***USA***Sept 2018***REU Student – Walker Miller-Breetz***Northeastern University, Together with Rahul Singh.***USA***Sept 2018***REU Student – Benjamin Bonenfant***Northeastern University, Together with Reuven Hodges.***USA***Sept 2018***REU Student – Zheyang Yu***Northeastern University, Together with Celine Bonandrini.***USA***Sept 2018***REU Student – Kevin Su***Northeastern University, Together with Jonier Antunes.***USA***Sept 2018***REU Student – Christina Nguyen***Northeastern University, Together with Whitney Drazen.***USA***Sept 2018***REU Student – Noah Lichtblau***Northeastern University, Together with Mikhail Mironov.***USA***Sept 2018***REU Student – Felipe Castellano-Macias***Northeastern University, Together with Alex Sorokin.***USA***Sept 2018*

### Graduate and undergraduate students.....

Currently, I am supervising **Alessio Borzi** for research project.

**Experiential Educational Direct Study – Zheyang Yu***Northeastern University, Thesis title: 'Introduction to Matroid Theory'.***USA***Dec 2018***BSc Honor thesis advisor of Jai Aslam***Northeastern University, Thesis title: 'Group actions on Knots'.***USA***May 2017***MSc thesis advisor of Jean Harerimana***Stockholm University, National University of Rwanda and Linköping University**Thesis title: 'Some mathematical models for Population Growth and Crowd Motion'.***Switzerland***June 2016***Mentor of Victor Lisinski***I mentored Victor until he was admitted in Sept 2017 as a PhD student at University of Oxford. From Nov 2014***Sweden**

**BSc thesis advisor of Niklas Hedberg**

*Stockholm University, Thesis title: 'Derivation of Runge-Kutta order conditions'*

**Sweden**

Nov 2013

**MSc thesis advisor of Manishimwe Alexis**

*Stockholm University, National University of Rwanda and Linköping University*

Thesis title: 'Hausdorff's measure and the Isoperimetric problem'.

**Sweden**

Oct 2013

**MSc thesis advisor of Janvier Ndahimana Rukundo**

*Stockholm University, National University of Rwanda and Linköping University*

Thesis title: 'Genetic Algorithms and their applications'.

**Sweden**

Oct 2013

## Talks

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**Sept 20, 2018:** Geometry, Physics, and Representation Theory Seminar, Northeastern University, Boston, USA;

**June 6, 2018:** SIAM Conference on Discrete Mathematics, University of Colorado, Denver, Colorado, USA;

**April 25 – 30, 2018:** Maurice Auslander Conference, Woods Hole, Massachusetts, USA;

**March 26, 2018:** Northeastern University, Boston, Massachusetts, USA;

**February 24, 2018:** Florida State University, Tallahassee, Florida;

**Sep 25, 2017:** Pre - Talk at GASC seminar, Northeastern University, Boston, MA;

**Sep 12, 2017:** Pick My Brain Seminar, Northeastern University, Boston, MA;

**Mar 20, 2017:** Brown University Algebra and Algebraic Geometry Seminar, Providence, Rhode Island;

**Mar 1, 2017:** Graduate Student Seminar of Northeastern University, Boston, MA;

**Feb 16, 2017:** Florida State University, Tallahassee, Florida;

**May 3, 2016:** Colloquium, Université de Neuchâtel, Switzerland;

**Jan 24-29, 2016:** Seminar on Matroids in Algebra, Repr. Th. and Top., Borel Seminar 2016, Les Diablerets, CH;

**Nov 18, 2015:** Oberseminar Geometrie, Fribourg, Switzerland;

**Oct 23, 2015:** UCLA, Los Angeles, California, USA;

**Oct 22, 2015:** Caltech, Pasadena, California, USA;

**Oct 19, 2015:** University of British Columbia, Vancouver, Canada, USA;

**Oct 16, 2015:** UC Berkeley, California, USA;

**Oct 14, 2015:** San Francisco State University, California, USA;

**Oct 12, 2015:** University of Miami, Florida, USA;

**Oct 8, 2015:** Yale, New Haven, Connecticut, USA;

**Oct 7, 2015:** Northeastern University, Boston, Massachusetts, USA;

**Sept 9, 2015:** Algebraic Geometry Seminar, Stockholm University, Sweden, USA;

**Apr 18-19, 2015:** AMS Special Session on Algebro-Geometric Methods in Graph Theory, LV, USA;

**Mar 20, 2015:** Topological Methods Thematic semester, Fribourg, Switzerland;

**Feb 11-28, 2015:** Algebraic topology, geometric and combinatorial group theory, Pisa, Italy;

**Jan 19-30, 2015:** Lie Theory and Representation Theory, Pisa, Italy;

**Dec 17, 2014:** Oberseminar Geometrie, Fribourg, Switzerland;

**Dec 10, 2014:** Séminaire Autour des Cycles Algébriques, Paris, France;

**Dec 1-3, 2014:** Arrangements of Hyperplanes, Bremen, Germany;

**Sept 8-13, 2014:** International meeting on numerical semigroups, Cortona, Italy;

**Oct 30, 2013:** Combinatoric Seminar, Helsinki, Finland;

**Oct 7, 2013:** Christer Lech Lectures, Stockholm, Sweden;

**Oct 1, 2013:** Algebraic Geometry Seminar, Uppsala, Sweden;

**June 10 - 14, 2013:** Advances in Group Theory and Applications 2013, Lecce, Italy;

**May 27 - 31, 2013:** Syzygies in Berlin, Berlin, Germany;

**Feb 20-24, 2013:** ETAM, Etna Triangulations & Algebra Meeting, Catania, Italy;

**Dec 18, 2012:** MSRI-program in Commutative Algebra, San Francisco, California, USA;  
**July 18-20, 2012:** Workshop: Iberian Meeting on Numerical Semigroups, Vila Real, Portugal;  
**Jan 16-20, 2012:** Learning and Intelligent Optimization Conference, LION 6, Paris, France;  
**Dec 12, 2011:** After Pragmatic Mini-Conference, Stockholm, Sweden;  
**Nov 18-19, 2011:** Swedish Mathematical Society, Linköping, Sweden;  
**Oct 6-9, 2011:** SIAM Conference on Applied Algebraic Geometry , Raleigh, North Carolina, USA.