



**Europass  
Curriculum Vitae**

**Personal information**

First name / Surname Simone Ugolini

**Positions as Contract  
Professor**

Dates Second semester academic year 2016/2017

Course "Mathematics for finance" for the part-time Bachelor's Degree in Business Administration (48 lecturing hours)

Institution University of Trento (Italy)

Dates First semester academic years from 2013/2014 to 2016/2017

Course "Mathematics" for the Bachelor's Degree in Biotechnology (64 lecturing hours)

Institution University of Verona (Italy)

Dates First semester academic years from 2014/2015 to 2016/2017

Course "Mathematical Analysis" for the Bachelor's Degree in Bioinformatics (62 lecturing hours in AY 2014/2015; 56 lecturing hours in AY 2015/2016; 32 lecturing hours in AY 2016/2017 )

Institution University of Verona (Italy)

Dates First semester academic years from 2014/2015 to 2016/2017

Course "Mathematical Analysis II" for the Bachelor's Degree in Computer Science (55 lecturing hours during AY 2014/2015; 52 lecturing hours in the other academic years)

Institution University of Verona (Italy)

Dates Second semester academic years from 2010/2011 to 2016/2017

Course "Mathematics" for the part-time Bachelor's Degree in Business Administration (72 lecturing hours)

Institution University of Trento (Italy)

Dates First semester academic years 2010/2011, 2011/2012, 2013/2014

Course "Mathematics" for the Bachelor's Degree in Viticultural and Oenological Science and Technology (48 lecturing hours)

Institution University of Verona (Italy)

**Positions as Teaching  
Assistant**

Dates	First semester academic year 2016/2017
Course	“Algebra B” for the Bachelor's Degree in Mathematics
Institution	University of Trento (Italy)
Dates	Second semester academic year 2015/2016
Course	“Algebra A” for the Bachelor's Degree in Mathematics
Institution	University of Trento (Italy)
Dates	Academic year 2015/2016
Course	“Analysis” for the Bachelor's Degree in Computer Science and Engineering
Institution	University of Bolzano (Italy)
Dates	First semester academic years from 2008/2009 to 2015/2016
Course	“Algebra” for the Bachelor's Degree in Mathematics
Institution	University of Trento (Italy)
Dates	Second semester academic year 2013/2014
Course	“Mathematics B” for the Bachelor's Degree in Economics and Social Sciences
Institution	University of Bolzano (Italy)
Dates	Second semester academic year 2013/2014
Course	“Geometry and linear algebra” for the Bachelor's Degree in Information and Business Organisation Engineering
Institution	University of Trento (Italy)
Dates	Second semester academic years from 2013/2014 to 2016/2017
Course	“Geometry and linear algebra” for the Bachelor's Degree in Civil Engineering
Institution	University of Trento (Italy)
Dates	Academic years 2011/2012 and 2012/2013
Course	“Mathematics A and B” for the Bachelor's Degree in Economics and Social Sciences
Institution	University of Bolzano (Italy)
Dates	Academic year 2011/2012
Course	“Analysis” for the Bachelor's Degree in Computer Science and Engineering
Institution	University of Bolzano (Italy)
Dates	Second semester academic year 2010/2011

Course “Discrete Mathematics 2” for the Bachelor's Degree in Computer Science  
Institution University of Trento (Italy)

Dates First semester academic year 2010/2011  
Course “Algebra” for the Bachelor's Degree in Applied Mathematics  
Institution University of Verona (Italy)

Dates First semester academic year 2010/2011  
Course “Mathematics A” for the Bachelor's Degree in Economics and Social Sciences  
Institution University of Bolzano (Italy)

### **Education and training**

Dates November 2006 – April 2010  
Title of qualification awarded PhD in Mathematics  
Thesis title “Graded Lie algebras of maximal class in positive characteristic, generated by two elements of different weights”  
Institution University of Trento (Italy)

Dates January 2004 – September 2006  
Title of qualification awarded Master of Science in Mathematics  
Thesis title “Graphs associated with the map  $X \rightarrow X+X^{-1}$  in a finite field”  
Institution University of Trento  
Level in national classification 110/110 cum laude

Dates September 2000 – January 2004  
Title of qualification awarded Bachelor in Mathematics  
Institution University of Trento (Italy)  
Level in national classification 108/110

Dates November 1993 – June 2002  
Title of qualification awarded Piano diploma  
Principal subjects/occupational skills covered Piano, choral music, harmony, history of music  
Institution Conservatory of Verona (Italy)

Level in national classification 10/10 cum laude

**Personal skills and competences**

Mother tongue Italian

Other languages  
(European level\*)

English (\*\*)  
German

Understanding	Speaking	Writing
C1	C1	C1
B1	B1	B1

(\*Common European Framework of Reference for Languages)

(\*\*): I got the Certificate in Advanced English (CAE) in August 2008

**Talks in conferences and workshops**

*On some iterative constructions of irreducible polynomials over finite fields.*

The 13th International Conference on Finite Fields and their Applications, 6<sup>th</sup> June 2017, Gaeta (Italy)

*Musica dodecafonica, calcolo combinatorio e oltre.*

La musica del Novecento come risorsa per la scuola, 10<sup>th</sup> November 2016, Bressanone (Italy)

*On numerical semigroups closed with respect to the action of affine maps.*

International meeting on numerical semigroups with applications, 7<sup>th</sup> July 2016, Levico Terme (Italy)

*On the iterations of certain maps  $\$x \mapsto k(x+x^{-1})\$$  over finite fields of odd characteristic.*

The 11th International Conference on Finite Fields and their Applications, 25<sup>th</sup> July 2013, Magdeburg (Germany).

*On the dynamics of the map  $x \rightarrow x+1/x$  over finite fields of characteristic 2, 3, 5 and beyond.*

Workshop on Lie algebras, finite groups, and finite fields 4 June 2013, Trento (Italy)

*Sequences of binary irreducible polynomials.*

RICAM Workshop on Finite Fields and Their Applications: Character Sums and Polynomials.

4 September 2012, St. Wolfgang (Austria)

**Attended conferences and workshops**

*Graphs associated with the map  $x \mapsto x+x^{-1}$  in a finite field of characteristic two.*

The 10th International Conference on Finite Fields and their Applications.

11<sup>th</sup> July 2011, Gent (Belgium).

*Graded Lie algebras of maximal class in positive characteristic, generated by two elements of different weights.*

Workshop on Lie Algebras 2011.

16<sup>th</sup> May 2011, University of Milano Bicocca (Italy)

*The 13<sup>th</sup> International Conference on Finite Fields and their Applications, 5<sup>th</sup>-9<sup>th</sup> June 2017, Gaeta (Italy)*

*La musica del Novecento come risorsa per la scuola, 10<sup>th</sup> November 2016, Libera Università di Bolzano, Bressanone (Italy)*

*International meeting on numerical semigroups with applications, 4<sup>th</sup>-8<sup>th</sup> July 2016, Levico Terme (Italy)*

*Workshop on Polynomials over Finite Fields: Functional and Algebraic Properties, 19<sup>th</sup>-23<sup>rd</sup> May 2014, CRM, Bellaterra (Spagna)*

*Emerging applications of finite fields, 9<sup>th</sup>-13<sup>th</sup> December 2013, RICAM, Linz (Austria)*

*Uniform distribution and quasi-Monte Carlo methods, 14<sup>th</sup>-18<sup>th</sup> October 2013, RICAM, Linz (Austria)*

*The 11<sup>th</sup> International Conference on Finite Fields and their Applications, 22<sup>nd</sup>-26<sup>th</sup> July 2013, University of Magdeburg (Germany)*

*The Art of Iterating Rational Functions over Finite Fields, May 5-10, 2013, BIRS, Banff (Canada)*

*RICAM-Workshop on Finite Fields and Their Applications: Character Sums and Polynomials, September 2<sup>nd</sup>-7<sup>th</sup>, 2012, St. Wolfgang (Austria)*

*The 10th International Conference on Finite Fields and their Applications, 11<sup>th</sup>-15<sup>th</sup> July 2011, University of Gent (Belgium)*

*Workshop on Lie Algebras 2011, 16<sup>th</sup>-17<sup>th</sup> May 2011, University of Milano Bicocca (Italy)*

*The 9<sup>th</sup> International Conference on Finite Fields and their Applications*, 13<sup>th</sup>-17<sup>th</sup> July 2009, Claude Shannon Institute, Dublin (Ireland)

## Publications

### Articles on Journals

S. Ugolini, *On numerical semigroups closed with respect to the action of affine maps*, Publ. Math. Debrecen, Volume 90 (1-2), 2017, pp. 149-167, ISSN 0033-3883, doi: 10.5486/PMD.2017.7500

S. Ugolini, *On an iterated construction of irreducible polynomials over finite fields of even characteristic by Kyuregyan*, Czechoslovak Mathematical Journal, Volume 66, Issue 1, March 2016, pp. 243-250, ISSN 0011-4642, doi: 10.1007/s10587-016-0253-2.

S. Ugolini, *Sequences of irreducible polynomials over odd prime fields via elliptic curve endomorphisms*, Journal of Number Theory, Volume 152, July 2015, pp. 21-37, ISSN 0022-314X, doi: 10.1016/j.jnt.2014.12.027.

S. Ugolini, *On the proof of a theorem by Carlitz*, Journal of Group Theory, Volume 18, Issue 1, January 2015, pp. 109-110, ISSN 1433-5883, doi: 10.1515/jgth-2014-0027.

S. Ugolini, *On the iterations of certain maps  $X \mapsto K \cdot (X + X^{-1})$  over finite fields of odd characteristic*, Journal of Number Theory, Volume 142, September 2014, pp. 274-297, ISSN 0022-314X, doi: 10.1016/j.jnt.2014.02.024.

S. Ugolini, *Sequences of irreducible polynomials without prescribed coefficients over odd prime fields*, Designs, Codes and Cryptography, Volume 75, Issue 1, April 2015, pp. 145-155, ISSN 0925-1022, doi: 10.1007/s10623-013-9897-1.

S. Ugolini, *Sequences of binary irreducible polynomials*, Discrete Mathematics, Volume 313, Issue 22, 28 November 2013, pp. 2656-2662, ISSN 0012-365X, doi: 10.1016/j.disc.2013.08.011.

S. Ugolini, *Graphs associated with the map  $X \mapsto X + X^{-1}$  in finite fields of characteristic three and five*, "Journal of Number Theory", Volume 133, Issue 4, April 2013, pp. 1207-1228, ISSN 0022-314X, doi: 10.1016/j.jnt.2012.09.007.

<b>Articles on peer-reviewed conference proceedings</b>	S. Ugolini, <i>Graphs associated with the map <math>x \mapsto x + x^{-1}</math> in finite fields of characteristic two</i> , in Theory and Applications of Finite Fields, Contemporary Mathematics, vol. 579, Amer. Math. Soc., Providence, RI, 2012, pp. 187-204, ISBN-13: 978-0-8218-5298-9, doi: 10.1090/conm/579/11530.
<b>PhD Thesis</b>	S. Ugolini, <i>Graded Lie algebras of maximal class in positive characteristic, generated by two elements of different weights</i> , Unitt-eprints PhD, Università di Trento.
<b>Other activities</b>	“Reviewer” for “Mathematical Reviews” of “American Mathematical Society” since June 2015

Bolzano, 7<sup>th</sup> August 2017