



Amos Turchet | CV

Department of Mathematics, University of Washington – Seattle WA 98195-4350
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in Amos Turchet

Positions held

University of Washington <i>Acting Assistant Professor, Mentor: Prof. Bianca Viray</i>	Seattle (US) 2016 – present
Chalmers University of Technology <i>Postdoc, Mentor: Prof. Per Salberger</i>	Göteborg (Sweden) 2014 – 2016
Brown University <i>Visiting Researcher, Advisors: Prof.s Dan Abramovich, Joseph Silverman</i>	Providence RI (USA) Sept 2012 – Feb 2013

Education

University of Udine <i>Ph.D. in (Arithmetic) Geometry, Supervisor: Prof. Pietro Corvaja</i>	Udine (Italy) 2011 – 2014
University of Udine <i>M.S. in Mathematics, Grade: 110/110 cum Laude</i>	Udine (Italy) 2007 – 2010
University of Udine <i>B.S. in Mathematics, Grade: 110/110 cum Laude</i>	Udine (Italy) 2003 – 2007
Conservatory “A.Boito” of Parma <i>Classical Guitar Diploma, Grade: 10/10</i>	Parma (Italy) 2001 – 2007

Research Interests

Arithmetic Geometry: Diophantine geometry, Function fields, Integral and Rational points on varieties, Vojta's conjectures, Uniformity of stably integral points

Algebraic Geometry: Birational geometry of pairs, Logarithmic geometry, Moduli spaces, Minimal Model Program, Higher dimensional varieties

Publications and Pre-prints

- 1: *Fibered Threefolds and Lang-Vojta's Conjecture over Function Fields*
to appear in Transactions of the American Mathematical Society; arXiv: 1310.7871;
- 2: *A fibered power theorem for pairs of log general type* - w/ Kenny Ascher
Algebra and Number Theory, vol. 10 (7), 2016, pp. 1581-1600; arXiv: 1506.07513;
- 3: *Invitation to Integral and Rational points on curves and surfaces* - w/ Pranabesh Das
in Rational Points, Rational Curves, and Entire Holomorphic Curves on Projective Varieties, Contemporary Mathematics, vol. 654, Amer. Math. Soc., Providence, RI, 2015, pp. 53-73.;
- 4: *Uniformity of stably integral points on log general type varieties* - w/ Kenny Ascher (in prep);
- 5: *Geometric Lang-Vojta Conjecture in \mathbf{P}^2* - (in prep);
- 6: Ph.D. Thesis: *Geometric Lang-Vojta Conjecture in the projective plane*;
- 7: Master of Science Thesis: *A case of Vojta's Conjecture over function fields* (Italian) 2010.

Experience

Teaching at University.....

University of Washington

Seattle

Instructor

2016–present

- Math 308 Matrix Algebra and Applications:
 - Section G - Autumn 2016
 - Section A and D - Winter 2017
 - Section C - Spring 2017.
- Supervision of the undergraduate experimental project: “AKS Primality Test” (4 students).

Chalmers University of Technology

Göteborg

Lecturer and Teaching Assistant

2014–2016

- Scheme Theory (Lecturer): January - May 2015.
- Multi-variable calculus (TA - Matlab session): Sept-Oct 2014, Sept-Oct 2015.
- Calculus II (TA - Matlab session): Nov-Dec 2014.
- Supervision of the undergraduate thesis: Primality Tests and the AKS primality test. (4 students)

University of Udine

Udine

Teaching Assistant

2010–2014

- Matematica Discreta – Algebra, Graph Theory and Linear Algebra;
 - Nov 2013 - May 2014 and Feb-May 2013 and Feb-Jun 2012.
- Matematica – Calculus and Linear Algebra:
 - Oct 2011 - Jan 2012 and Nov 2010 - Jan 2011.

Other.....

Scuola di Musica di Pagnacco

Pagnacco (Ud)

Classical and Modern Guitar Teacher

2004–2006

Selected Talks, Advanced Schools and Conferences

- Number Theory Seminar, University of Oregon, US, November 9 2016;
- Number Theory and Algebraic Geometry Seminars, University of Washington, US, October 11 2016;
- \mathbb{N}^3 -days IV - University of Copenhagen, Denmark, June 3-4 2016;
- Algebra and Geometry Seminar - KTH and Stockholm University, Sweden, May 18 2016;
- Analyse, Géométrie, Topologie Séminaire - Aix-Marseille Université, France, January 25 2016;
- Forschergruppe Seminar - University of Bayreuth, Germany, January 18 2016;
- Terzo incontro italiano di Teoria dei Numeri - Center “Ennio de Giorgi”, Pisa, Italy - Sept 21-24 2015;
- 2015 Summer Research Institute on Algebraic Geometry - University of Utah, US, July 13-31 2015;
- Quantitative Arithmetic Geometry - Mittag-Leffler Institute, Sweden, June 22-26 2015;
- \mathbb{N}^3 -days II - University of Copenhagen, Denmark, June 16-17 2015;
- Final ERC meeting in Diophantine Geometry - Accademia dei Lincei, Rome, May 27-29 2015;
- Distribution of Rational and Holomorphic Curves in Algebraic Varieties - BIRS, Canada, March 15-20 2015;
- Seminar Algebra and Geometrie - Universität Basel, Basel, Switzerland, December 19 2014;
- \mathbb{N}^3 -days I - University of Copenhagen, Denmark, December 15-16 2014;
- Vojta’s Conjectures - BIRS, Canada, September 28 - October 3 2014;
- Algebraic Geometry and Number Theory Seminars, Chalmers University, Sweden, Sept 2014 and March 2015;
- Intercity Workshop in Arakelov Theory - Rome “Sapienza”, Italy, September 8-11 2014;

- Second ERC Research Period on Diophantine Geometry - Cetraro, Italy - July 14-26 2014;
- Géométrie Algébrique en Liberté - SISSA, Trieste, Italy - June 23-27 2014;
- On Lang and Vojta's conjectures - CIRM, Marseille, France - March 3-7 2014;
- TULSF VIII. A meeting in Algebraic Geometry - University of Ljubljana, Slovenia - Sept 19 2013;
- Thematic Program on Rational Points, Rational Curves and Entire Holomorphic Curves on Algebraic Varieties - Centre de recherches mathématiques, Montréal, Canada - June 2013;
- AGNES - Brown University, Providence, US - October 26-28 2012 (Poster presented);
- Junior Arit and Alg Geom Seminars - Brown University, Providence, US - Oct 2012 and Jan 2013;
- Giornate di Geometria Algebrica ed argomenti correlati - Center "Ennio de Giorgi", Pisa, Italy - May 23-26 2012;
- Moduli of Curves and Gromov-Witten Theory - Institut Fourier, France - June 20 - July 8, 2011;
- School and Conference on Modular Forms and Mock Modular Forms and their applications in Arithmetic, Geometry and Physics - ICTP, Trieste, Italy - Feb 20 - March 18, 2011;

Grants

Grants: : Knut and Alice Wallenberg Foundation Travel grant (2014)

Ph.D. Scholarship: : MIUR - Scholarship of 3 years for Ph.D. Program (2011-2013)

Merit Award: : City of Magnano in Riviera – Scholarship for Academic Merit (2003 and 2008)

Organizational and Editorial Work

- Co-organizer of *Where Geometry meets Number Theory - a conference in honour of the 60th birthday of Per Salberger*, Chalmers University, 17-19 July 2017;
- Co-organizer of \mathbb{N}^3 -days V, Chalmers University, Nov 25-26 2015;
- Co-organizer of \mathbb{N}^3 -days III, Chalmers University, Dec 4-5 2015;
- Organizer of *Algebraic Geometry and Number Theory Seminars* at Chalmers University 2014-2016;
- Webmaster for the website www.n-cube.net and for the Seminars in AG and NT webpage for Chalmers;
- Local Organizer of the 9th Metaheuristics International Conference MIC, Udine, July 25-28 2011;
- Reviewer for Zentralblatt MATH since 2014;
- Member of the American Mathematical Society;

Languages

Italian: Mother tongue.

English: Good reading, listening, writing and speaking skills.

Latest certification: December 2011 - IELTS overall score 7.5

French and German: Limited.

Computer skills

Programming Languages: C, Python, basics of C++ and Java.

Operating Systems: Mac OSX, Microsoft Windows, Linux.

Math Software: Mathematica, $\text{T}_{\text{E}}\text{X}$, $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$, basics of Matlab, Sage, Macaulay2.

Other: Microsoft office, Open Office, Basics of HTML, PHP, Git and CSS.

Interests

Music.....

Choral: Active member of "Seattle Choral Company". Member of "Musicanova" Choir.

Guitarist and arranger: ¿Cuinon? - Folk Progressive Friulan Music - 3 CDs recorded.

Other.....

Charity Work: Active Member of Blood Donors Association of Friuli (Italy);

Driving License: Italian (European) driving license (category B);

Misc: Reading, Traveling, Soccer and Basketball fan;

Visited Country: Austria, Belgium, Canada, Croatia, Denmark, England, France, Germany, Greece, Netherlands, Scotland, Slovenia, Sweden, Switzerland, US.

Last modified: December 2016.