



Amos Turchet | CV

Chalmers University of Technology and University of Gothenburg

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🌐 Amos Turchet

Education

Chalmers University of Technology

Postdoc, Mentor: Prof. Per Salberger

Göteborg (Sweden)

2014 – present

University of Udine

Ph.D. in (Arithmetic) Geometry, Supervisor: Prof. Pietro Cirovaja

Udine (Italy)

2011 – 2014

Brown University

Visiting Researcher, Advisors: Prof.s Dan Abramovich, Joseph Silverman

Providence RI (USA)

Sept 2012 – Feb 2013

University of Udine

M.S. in Mathematics, Grade: 110/110 cum Laude

Udine (Italy)

2007 – 2010

University of Udine

B.S. in Mathematics, Grade: 110/110 cum Laude

Udine (Italy)

2003 – 2007

Conservatory “A.Boito” of Parma

Classical Guitar Diploma, Grade: 10/10

Parma (Italy)

2001 – 2007

Research Interests

Arithmetic Geometry: Diophantine geometry, Function fields geometry, Integral and Rational points on varieties, Vojta’s conjectures, Heights theory.

Algebraic Geometry: Logarithmic geometry, Moduli spaces, Minimal Model Program, Higher dimensional varieties, Jet spaces.

Other Interests: Toric varieties, Gromov-Witten invariants, Complex analytic constructions related to arithmetic problems, Computational aspects of Algebraic and Arithmetic Geometry, Optimization, Programming.

Publications and Preprints

1: *Fibered Threefolds and Lang-Vojta’s Conjecture over Function Fields -*

(submitted); arXiv: 1310.7871;

2: *Invitation to Integral and Rational points on curves and surfaces - w/ Pranabesh Das*

(accepted in Contemporary Mathematics); arXiv: 1407.7750;

3: *A fibered power theorem for pairs of log general type - w/ Kenneth Ascher*

(submitted); arXiv: 1506.07513;

4: *Uniformity of stably integral points on log general type varieties - w/ Kenneth Ascher*

(in preparation);

5: *Geometric Lang-Vojta Conjecture in \mathbf{P}^2 - (in preparation);*

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.....

Chalmers University of Technology

Lecturer and Teaching Assistant

Göteborg

2014–present

Courses taught:

- Scheme Theory (Lecturer - assigned): January - May 2015.
- Multivariable calculus (TA - Matlab session): Sept-Oct 2014, Sept-Oct 2015.
- Calculus II (TA - Matlab session): Nov-Dec 2014.

University of Udine

Teaching Assistant

Udine

2010–2014

Courses taught:

- 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

Classical and Modern Guitar Teacher

Pagnacco (Ud)

2004–2006

Selected Talks, Advanced Schools and Conferences

- 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 (Talk given);
- \mathbb{N}^3 -days II - University of Copenhagen, Denmark, June 16-17 2015 (Talk given);
- 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 (Talk given);
- \mathbb{N}^3 -days I - University of Copenhagen, Denmark, December 15-16 2014;
- Vojta's Conjectures - BIRS, Canada, September 28 - October 3 2014 (Talk given);
- Chalmers' Algebraic Geometry and Number Theory Seminars, Göteborg, Sweden, Sept 2014 and March 2015 (Talks given);
- Intercity Workshop in Arakelov Theory - Rome "Sapienza", Italy, September 8-11 2014 (Talk given);
- Second ERC Research Period on Diophantine Geometry - Cetraro, Italy - July 14-26 2014;
- Géométrie Algébrique en Liberté - SISSA, Trieste, Italy - June 23-27 2014 (Poster presented);
- On Lang and Vojta's conjectures - CIRM, Marseille, France - March 3-7 2014 (Talk given);
- TULSF VIII. A meeting in Algebraic Geometry - University of Ljubljana, Slovenia - Sept 19 2013 (Talk given);
- 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 Arith and Alg Geom Seminars - Brown University, Providence, US - Oct 2012 and Jan 2013 (Talks given);
- Giornate di Geometria Algebrica ed argomenti correlati - Center "Ennio de Giorgi", Pisa, Italy - May 23-26 2012;
- Summer School on Moduli of Curves and Gromov-Witten Theory - Institut Fourier, Grenoble, France - June 20 - July 8, 2011 (Talk given);
- 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 \mathbb{N}^3 -days III, to be host at Chalmers University, Dec 4-5 2015;
- Organizer of *Algebraic Geometry and Number Theory Seminars* at Chalmers University 2014-2016;
- Webmaster for the website of \mathbb{N}^3 and of the Seminars in AG and NT 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 European Mathematical Society;

Languages

Italian: Mothertongue.

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 "Chalmers manskör". 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 Licence: Italian (European) driving licence (category B);

Misc: Reading, Traveling, Soccer and Basketball fan;

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

Last modified: 30 August 2015.