

Amos Turchet

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EMPLOYMENT

2016 – Acting Assistant Professor, University of Washington
2014 – 2016 Postdoctoral Researcher, Chalmers University of Technology

VISITING APPOINTMENTS

2013 Academic guest, Rational Points, Rational Curves and Entire Holomorphic Curves on Algebraic Varieties, Centre de recherches mathématiques, Montréal
2012 – 2013 Visiting Researcher, Brown University,
Advisors: Prof.s Dan Abramovich and Joseph Silverman

EDUCATION

2014 Ph.D. Mathematics, Università degli studi di Udine (advisor: Pietro Corvaja)
2010 M.S. Mathematics, Università degli studi di Udine, cum laude
2007 B.S. Mathematics, Università degli studi di Udine, cum laude
2007 Classical Guitar Diploma, Conservatorio A. Boito di Parma, 10/10

RESEARCH INTERESTS

Arithmetic and Algebraic Geometry, Number Theory

AWARDS AND GRANTS

2018 Nominee, University of Washington Postdoc Mentoring Award
2014 Knut and Alice Wallenberg Foundation Travel grant
2011 – 2014 MIUR Ph.D. Scholarship
2003 – 2008 Scholarship for Academic Merit, Magnano in Riviera, UD

PUBLICATIONS

IN JOURNALS AND VOLUMES

1. Fibered Threefolds and Lang-Vojta's Conjecture over Function Fields.
Transactions of the American Mathematical Society **369** (2017), no.12, 8537-8558
doi: 10.1090/tran/6968

2. A fibered power theorem for pairs of log general type. (with K. Ascher.) *Algebra and Number Theory* **10** (2016), no. 7, 1581–1600. doi: 10.2140/ant.2016.10.1581
3. Invitation to Integral and Rational points on curves and surfaces. (with P. Das.) *Rational Points, Rational Curves, and Entire Holomorphic Curves on Projective Varieties*, Contemporary Mathematics, vol. 654, Amer. Math. Soc., Providence, RI, 2015, pp. 53-73. doi: 10.1090/conm/654/13215

SUBMITTED FOR PUBLICATION

4. Uniformity for integral points on surfaces, positivity of log cotangent sheaves and hyperbolicity. (with K. Ascher and K. DeVleming.) – submitted.

IN PREPARATION

5. Geometric Lang-Vojta Conjecture in \mathbb{P}^2 .
(with K. Ascher and M. Talpo.) – in preparation.
6. Vojta's Conjecture over function fields for surfaces dominating \mathbb{G}_m^2 .
(with L. Capuano.) – in preparation.

OTHER PUBLICATIONS

7. An Introduction to Uniformity of rational points on curves of genus 2 over \mathbb{Q} .
(from an undergraduate project with R. Hiatt, D. Micovic, B. V. Patiño, B. T. P. Quah and T. Scholl.) – In preparation.
8. Geometric Lang-Vojta Conjecture in the projective plane. Ph.D. Thesis, 2014;

SEMINARS AND CONFERENCES AS SPEAKER

- 2018 Canadian Math Society Winter Meeting, UBC
Recent Advances in Arithmetic and Hyperbolic Geometry
Spring Eastern Sectional AMS Meeting, Portland University
Special Session on Algebraic Geometry and its Connections
University of Oxford, Algebraic Geometry Seminar
- 2017 Banff International Research Station, Diophantine Approximation and Algebraic Curves
UBC, Algebraic Geometry Seminar
- 2016 University of Oregon, Number Theory Seminar
University of Washington, Number Theory Seminar
University of Washington, Algebra and Algebraic Geometry Seminar
KTH, Seminar Algebra and Geometry
Aix Marseille Université, Séminaire Géométrie, Dynamique et Topologie

- Universität Bayreuth, Algebraic Geometry Seminar
 Johannes Gutenberg University Mainz, SFB-Kolloquium
- 2015 Terzo Incontro Italiano di Teoria dei Numeri, Centro de Giorgi Pisa
 Quantitative arithmetic geometry, Mittag-Leffler Institute
 \mathbb{N}^3 -days 2, University of Copenhagen
 Chalmers University of Technology, Algebraic Geometry Seminar
- 2014 Universität Basel, Seminar Algebra and Geometry
 Banff International Research Station, Vojta's Conjectures
 Chalmers University of Technology, Number Theory Seminar
 Intercity workshop in Arakelov Theory, "Sapienza" Università di Roma
 On Lang and Vojta's conjectures, CIRM Marseille
- 2013 TULSF VIII (A meeting in Algebraic Geometry), Ljubljana University
 Brown University, Junior Arithmetic and Algebraic Geometry Seminars
- 2012 Moduli of Curves and Gromov-Witten Theory, Institut Fourier

SELECTED CONFERENCES AS A PARTICIPANT

- 2017 Specialization problems in Diophantine Geometry, Cetraro
 Western Algebraic Geometry Symposium, Spring 2017, UBC
 Banff International Research Station, Newton-Okunkov Bodies, Test Configurations,
 and Diophantine Geometry
- 2016 \mathbb{N}^3 -days 4, University of Copenhagen
- 2015 Banff International Research Station, Distribution of Rational and Holomorphic Curves
 in Algebraic Varieties
 2015 Summer Research Institute on Algebraic Geometry, University of Utah
 Final ERC meeting in Diophantine Geometry, Accademia dei Lincei
- 2014 \mathbb{N}^3 -days 1, University of Copenhagen
 Second ERC Research Period on Diophantine Geometry, Cetraro
 Géométrie Algébrique en Liberté, SISSA
- 2011 School and Conference on Modular Forms and Mock Modular Forms and their appli-
 cations in Arithmetic, Geometry and Physics, ICTP

TEACHING

UNIVERSITY OF WASHINGTON, Professor

- 2018 Spring Math 308 B: Matrix Algebra (Linear Algebra)
 Winter Math 582 G: Diophantine Geometry of Curves (Graduate Course)
 Math 308 D: Matrix Algebra (Linear Algebra)
- 2017 Fall Math 402: Introduction to Modern Algebra I (Group Theory)
 Spring Math 308 G: Matrix Algebra (Linear Algebra)
 Winter Math 308 A: Matrix Algebra (Linear Algebra)
 Math 308 D: Matrix Algebra (Linear Algebra)

- 2016 Fall Math 308 G: Matrix Algebra (Linear Algebra)
UNIVERSITY OF WASHINGTON, Reading courses
- 2018 Arithmetic of Elliptic Curves (1 graduate student)
 Uniformity of Rational points (4 undergraduate students)
- 2017 Diophantine Equations (4 undergraduate students)
 Primality Tests and Elliptic Curves (4 undergraduate students)
 Primality Tests and the AKS Theorem (4 undergraduate students)
- CHALMERS UNIVERSITY OF TECHNOLOGY**, Professor
- 2015 Scheme Theory (Graduate Course)
CHALMERS UNIVERSITY OF TECHNOLOGY, Teaching assistant
- 2015 MVE085: Multivariable Calculus
 MVE016: Calculus II
- 2014 MVE085: Multivariable Calculus
UNIVERSITÀ DEGLI STUDI DI UDINE, Teaching assistant
- 2013 – 2014 Matematica Discreta per Informatica
- 2012 – 2013 Matematica Discreta per Informatica
- 2011 – 2012 Matematica Discreta per Informatica
 Matematica per Architettura
- 2010 – 2011 Matematica per Architettura

CONFERENCE AND SEMINAR LEADERSHIP

ORGANIZER

- 2019 AMS Joint Central and Western Sectional Meeting:
 Special session on “Arithmetic Geometry and its connections”
 Co-organizer: L. Capuano
- 2017 Where Geometry meets Number Theory, a conference for 60th birthday of P. Salberger
 Co-organizer: J. Brandes, T. Browning, O. Marmon
- 2016 \mathbb{N}^3 -days 5 at Chalmers University
 Co-organizers: J. Brandes, D. Eriksson, P. Salberger, M. Westerholt-Raum
- 2015 \mathbb{N}^3 -days 3 at Chalmers University
 Co-organizer: D. Eriksson, P. Salberger, M. Westerholt-Raum
- 2014 – 2016 Chalmers University of Technology: Organizer of the Algebraic Geometry and Number Theory Seminar
- 2011 9th Metaheuristics International Conference (Local Organizer)

PROJECT LEADER

- 2018 Washington Experimental Mathematical Lab: Uniformity of Diophantine Equations
- 2017 Washington Experimental Mathematical Lab: Elliptic Curves and Primality Tests
 Washington Experimental Mathematical Lab: The AKS Primality Test

ADVISING

Stepan Maximov, Trang Nguyen, Robin Sorsa Sigurdson, Olivia Stalin
Chalmers University of Technology - Undergraduate thesis:
“Primality Tests and the AKS primality test”

OUTREACH

2018 Lecturer, Math Day - University of Washington
2017 Lecturer, Math Day - University of Washington

COMMUNITY SERVICE

Referee for Journal of Pure and Applied Algebra, Mathematica Scandinava
Reviewer for Zentralblatt MATH
Member of the American Mathematical Society

ACADEMIC REFERENCES

RESEARCH

Prof. Dan Abramovich, Brown University - abrmovic@math.brown.edu
Prof. Pietro Corvaja, Università degli Studi di Udine - pietro.corvaja@uniud.it
Prof. Sándor Kovács, University of Washington - skovacs@uw.edu
Prof. Per Salberger, Chalmers University of Technology - salberg@chalmers.se
Prof. Bianca Viray, University of Washington - bviray@uw.edu

TEACHING

Prof. Jayadev Athreya, University of Washington - jathreya@uw.edu
Prof. David Collingwood, University of Washington - colling@uw.edu