Centro di Ricerca Ennio de Giorgi Collegio Pr Scuola Normale Superiore amos.turc 56100 Pisa amosturch

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Last Updated: June 2020

EMPLOYMENT

2019 -	Junior Visitor, Scuola Normale Superiore di Pisa
2016 - 2019	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

- 2019 Qualification for Maître de conférences
- 2018 Nominee, University of Washington Postdoc Mentoring Award
- 2017 Grant for "Where Geometry meets Number Theory, a conference for 60th birthday of P. Salberger": 110.000 SEK (Gothenburg Center for Advanced Studies GoCAS) and 93.000 SEK (Swedish Research Council)
- 2016 Grant for "Number Theory Days 5": 25.000 SEK (GoCAS)
- 2015 Grant for "Number Theory Days 3": 35.000 SEK (GoCAS)
- 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
- 4. The Erdős-Ulam problem, Lang's Conjecture, and uniformity. (with K. Ascher and L. Braune) Bulletin of the London Mathematical Society. published online: https://doi.org/10.1112/blms.12381
- 5. Hyperbolicity And Uniformity Of Varieties Of Log General Type. (with K. Ascher and K. DeVleming.) to appear in *International Mathematics Research Notices*.

SUBMITTED FOR PUBLICATION

- 6. Lang-Vojta Conjecture over function fields for surfaces dominating \mathbb{G}_m^2 . (with L. Capuano.) submitted.
- 7. Nonspecial varieties and Generalized Lang-Vojta conjectures. (with E. Rousseau and J.T.-Y. Wang) submitted.

IN PREPARATION

- 8. Geometric Lang-Vojta Conjecture in \mathbb{P}^2 . (with K. Ascher and M. Talpo.) – in preparation.
- 9. GCD results on semiabelian varieties and a Conjecture of Silverman (with F. Barroero and L. Capuano) in preparation.

OTHER PUBLICATIONS

- 10. Hyperbolicity of varieties of log general type. to appear as chapter in *Arithmetic Geometry of Logarithmic Pairs and Hyperbolicity of Moduli Spaces*, CRM-Springer Short Courses Series.
- 11. Geometric Lang-Vojta Conjecture in the projective plane. Ph.D. Thesis, 2014.

LECTURE SERIES

- 2019 School (and Workshop) on Diophantine geometry and special varieties Trento, September 2019, Supporting lecturer
- 2018 Geometry and arithmetic of orbifolds, Montréal December 2018

 Title: Arithmetic and Geometry of log pairs (w. Kenny Ascher 4 lectures)

SEMINARS AND CONFERENCES AS SPEAKER

2020 Minisymposium "Number Theory" within the 8ECM (Covid postponed)

2019 University of Freiburg, Seminar: Algebra, Zahlentheorie und algebraische Geometrie Summer program on complex geometry and several complex variables, Shanghai Center for Mathematical Sciences

Université Paris-Sud, Audition pour MDC

Diophantine Approximation and Value Distribution Theory at the interface of Arithmetic and Complex Hyperbolic Geometry. UQAM, Montréal

Hawaii Number Theory 2019 conference (HINT 2019)

Arithmetic Geometry Session

Greater Vancouver Number Theory Day, UBC, Vancouver

2018 Canadian Math Society Winter Meeting, Vancouver Recent Advances in Arithmetic and Hyperbolic Geometry University of Oxford, Arithmetic Geometry Seminar

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 N³-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	ASA	PARTICIPANT
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2019 Topics in Rational and Integral Points, Universität Basel Birational Geometry and Hodge Theory – Entire Curves, Rational Curves and Foliation, CIRM Marseille

- 2018 International summer school on Arithmetic geometry, Università degli Studi di Salerno Workshop on effectivity and ineffectivity for unlikely intersections, University of Manchester
- 2017 Western Algebraic Geometry Symposium, Fall 2017, UCLA 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 N³-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

Géometrié Algébrique en Liberté, SISSA

2011 School and Conference on Modular Forms and Mock Modular Forms and their applications in Arithmetic, Geometry and Physics, ICTP

TEACHING

University of Washington, Professor

2019 Spring Math 308 H: Matrix Algebra (Linear Algebra)

Winter Math 340 G: Abstract Linear Algebra

2018 Fall Math 308 C: Matrix Algebra (Linear Algebra)

Math 308 D: Matrix Algebra (Linear Algebra)

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 (Combinatorics, arithmetic and linear algebra)
2012 - 2013	Matematica Discreta per Informatica
2011 - 2012	Matematica Discreta per Informatica
	Matematica per Architettura (Multivariable calculus and linear algebra)
2010 - 2011	Matematica per Architettura
	Conference Organization
	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

ADVISING

2015

2011

THESIS SUPERVISED

 \mathbb{N}^3 -days 3 at Chalmers University

2016 Stepan Maximov, Trang Nguyen, Robin Sorsa Sigurdson, Olivia Stalin Chalmers University of Technology - Undergraduate thesis: "Primality Tests and the AKS primality test"

9th Metaheuristics International Conference (Local Organizer)

RESEARCH PROJECTS FOR UNDERGRADUATES

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

Co-organizer: D. Eriksson, P. Salberger, M. Westerholt-Raum

OUTREACH

2018 Lecturer, Math Day - University of Washington

2017 Lecturer, Math Day - University of Washington

SERVICE

DEPARTMENTAL SERVICE

2018 Leading Acting Assistant Professor (guidance for new postdocs)

 $2014-2016\,$ Chalmers University of Technology: Organizer of the Algebraic Geometry and Number Theory Seminar

COMMUNITY SERVICE

Referee for IMRN, Journal of Pure and Applied Algebra, Periodica Mathematica Hungarica, 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, Universitá degli studi di Udine - pietro.corvaja@uniud.it

Prof. Sándor Kóvacs, University of Washington - skovacs@uw.edu

Prof. Aaron Levin, Michigan State University - levina@msu.edu

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