

Tommaso Cremaschi – Résumé

Nationality Italian

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Address Department of Mathematics Maloney Hall, Fifth Floor Boston College
Chestnut Hill, MA 02467-3806

Education

- 2014-** PhD candidate, Boston College, Chestnut Hill, MA.
Supervisor: Martin Bridgeman, Ian Biringer.
- 2013-2014** MAst in Mathematics, Part III, University of Cambridge, Cambridge, UK.
Essay: *The Coloured Jones Polynomial*, J.Rasmussen.
- 2010-2013** Bsc in Mathematics, University of Rome, Rome, IT.
Thesis: *2-Dimensional TQFT and Frobenius Algebra*, Advisor M.Manetti.

Research Interests

- Hyperbolic Geometry, Teichmüller Theory and Moduli space
- Low dimensional topology

Publications and Preprints

1. *A locally Hyperbolic 3-manifold that is not hyperbolic*, published Proceedings of the American Mathematical Society, 2018.
2. *Discrete groups without finite quotients*, with Juan Souto, 2018, published in Topology and its applications.
3. *A locally hyperbolic 3-manifold not homotopy equivalent to any hyperbolic manifold*, 2018, pre-print.
4. *Hyperbolicity of links complements in Seifert fibered spaces*, with José Andrés Rodríguez Migueles, 2018, pre-print.
5. *Hyperbolization on infinite type 3-manifolds*, in preparation.
6. *QC-deformation of infinite type 3-manifolds*, with A. Yarmola, in preparation.

Awards, Grants, Memberships

May 1- GEAR Summer REGS

June 30, 2016 Title: *Hyperbolic 3-manifolds of infinite type, Summer Research Grant*
Supervisor: Juan Souto, Rennes 1

2014 AMS member

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Talks

Title: On hyperbolic 3-manifolds with non-finitely generated fundamental group.

- Yale Topology and Geometry Seminar, 9th October 2018.
- Princeton Topology Seminar, 4th October 2018.
- GSTGC, The University of Illinois at Chicago, 7th April 2018.
- Toulouse Topology and Geometry seminar, 13th February 2018.
- Luxembourg Topology and Geometry seminar, 22nd January 2018.
- Wild objects in analysis and low-dimensional geometry and topology, October 2017
- Gear Junior Retreat, Stanford August 2017.
- 32 Summer Topology Conference, Dayton June 2017.
- Boston College Graduate Seminar.

Talk: TQFT in low dimensions.

- Boston College Graduate Seminar.
- Cambridge: Part III Seminar Series:

Teaching Experience

Instructor for:

- Calculus 1, Fall 2018.
- Finite Probability, Fall 2017.
- Finite Probability, Fall 2016.

Teaching assistant for:

- TA for Multivariable Calculus, Spring 2016.
- TA for Calculus 1, Fall 2015.
- TA for Probability, Spring 2015.
- TA for Calculus 2, Fall 2014.

Service

- BC GSA-President, 2018- ;
- BC GSA-Treasurer, 2017-2018;
- BC GSA-Secretary, 2015 -2016;
- Co-organiser and founder of the Boston Graduate Math Colloquium, 2017 -.

Conferences and Workshops Attended

2018

May. 25- Geometry and Topology of 3-manifolds Workshop
28 May. *OIST, Okinawa*

Feb. 19- Geometry of Groups and 3-manifolds - State of the Art and Perspectives
23 Feb. *CIRM, Luminy*

Jan. 29- Representation Spaces, Teichmüller Theory, and their Relationship with 3-manifolds
2 Feb. *CIRM, Luminy*

2017

Oct. 2-6 Wild objects in analysis and low-dimensional geometry and topology
University of Rennes 1

Sep. 18-22 Geometric Topology in Low Dimensions
Warwick University

Aug. 22-26 2017 Hamilton Workshop
Trinity College -Dublin

July 31-Aug. 11 3rd Gear Network Retreat
Stanfordq - Speaker at the Junior Retreat

June 2-June 26, 32 Summer Conference on Topology and its Applications
University of Dayton-Invited Speaker

June 4-10 Geometric Topology in Cortona
Universita Normale di Pisa

May 15-19 Shanks Topology Conference
Vanderbilt University

2016

Nov. 18-20 Virginia Topology Conference
University of Virginia

Oct. 25-28 Geometry of mapping class groups and $\text{Out}(F_n)$
MSRI

Oct. 21-23 RTG Workshop on the Geometry and Physics of Higgs bundles I
UIC

Sept. 27-30 Groups acting on $\text{CAT}(0)$ spaces
MSRI

March 31-April 8 Hyperbolic groups and their representations, CIMPA School, Sponsored by GEAR

2015

June 15 - 26 Geometric Group Theory
MSRI

April 21-22 Identities in New York
CUNY

Skills

- **Programming Languages**

Latex
Mathematica

- **Languages**

English - Fluent
Italian - Native

- **Services**

BC GSA-Treasurer, 2017-

BC GSA-Secretary, 2015 -2016

References

Research:

Name Ian Biringer
Position Assistant Professor, Boston College
Contact ian.biringer@bc.edu

Name Yair Minsky
Position Professor, Yale
Contact yair.minsky@yale.edu

Name Martin Bridgeman
Position Professor, Boston College
Contact bridgem@bc.edu

Name Juan Souto
Position Professor, IRMAR Rennes, CNRS
Contact jsoutoc@gmail.com

Teaching:

Name Daniel Chambers
Position Associate Professor, Boston College
Contact chambers@bc.edu

Name Ellen Goldstein
Position Assistant Professor of the Practice,
Boston College
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