

Curriculum Vitæ

Renzo Cavalieri

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Personal Data

Date of Birth: September 24, 1976; Milano, ITALY.

Education

2000-2002 MA in Mathematics- University of Utah

1995-2000 LAUREA in Mathematics - Universita' degli Studi di Milano, Milano, ITALY.

Dissertation: "Algebraic Curves defined over the Algebraic Closure of the Rational Numbers."

Advisor: Professor Gian Pietro Pirola.

Positions

2002-present University of Utah - Teaching Fellow

2000-2002 University of Utah - Teaching Assistant

Invited Talks

Spring 2003 Algebraic Geometry Seminar, Universita' degli Studi di Pavia, Pavia, ITALY.
Frobenius Algebras, Topological Quantum Field Theories, Hurwitz Numbers.
A possible approach to Gromov-Witten Theory.

Spring 2005 Algebraic Geometry Seminar, University of Michigan, Ann Arbor, (MI).
Topological Quantum Field Theories, Admissible Covers, and a Deformation of the Class Algebra of the Symmetric group.

Spring 2005 Algebraic Geometry Seminar, Johns Hopkins University, Baltimore, (MD).
Topological Quantum Field Theories, Admissible Covers, and a Deformation of the Class Algebra of the Symmetric group.

Talks at the University of Utah

Fall 2000 GSAC Colloquium.
Grothendieck's Theory of Dessins d'Enfants.

Spring 2001 GSAC Colloquium.
Approximating Jacobians...maybe...

Spring 2003 String Theory Seminar.
Derived Categories: construction.

Spring 2003 GSAC Colloquium
Frobenius Algebras and TQFT's: a passionate kiss between Algebra and Geometry.

Fall 2003 GSAC Colloquium

A cocktail party conversation on the Gopakumar-Vafa Conjecture.

Spring 2004 mini Max Dehn Seminar

Counting covers with TQFT's.

Spring 2004 String Geometry Seminar

QFT 101: the beginning of the story.

Spring 2004 Graduate Recruitment Seminar

TQFT's: bringing algebra into physics...or vice-versa.

Fall 2004 Algebraic Geometry Seminar

Deformations of the class algebra of the symmetric group S_d . (Two talks)

Fall 2004 GSAC Colloquium

Counting bitangents with Stable Maps.

Honors

2004 Graduate Research Fellowship - University of Utah.

2003 Outstanding Graduate Student Award - Department of Mathematics, University of Utah.

1997-2000 INPDAP Scholarship. (Italian Organization of State Employees.)

Teaching

Fall 2000: Math 1210, Calculus I (Teaching Assistant for Professor Hugo Rossi)

Spring 2001: Math 1090, Business Algebra

Fall 2001 - Spring 2003: Organizer of the Mathcircle Program

Original Lectures Written for MC:

Mathematical Induction

Asteroids: what's the shape of your Universe?

Flatland: how fat is your Universe?

Algebra and Number Theory contests and solutions

What is Mathematics all about?

Algebraic Curves and Pascal's Theorem

Fall 2003 Math1220, Calculus II

Spring 2004 Graduate Reading Course

Kontsevich's Formula for Rational Plane Curves.

Other Departmental Activities

2001-2003 Organizer of GSAC Colloquium.

Publications/Works in Progress

Math Circle, an outreach program at the University of Utah, with David Hartenstine.
(appeared on the January 2005 issue of Focus, newsletter of the MAA)

Counting bitangents with Stable Maps, with David Ayala.
(submitted to "L'Enseignement Mathématique")

Hodge-type integrals on moduli spaces of Admissible Covers.
(math.AG/0411500)

School/Conferences Attended

Summer 1999 Perugia, ITALY.

CIRM Summer School

Summer 2002 University of Illinois at Urbana-Champaign (IL).

Workshop on Algebraic Stacks

Fall 2002 Texas Tech, Lubbock (TX).

Red Raider mini symposium. Contemporary Algebra and Algebraic Geometry.

Fall 2002 University of Utah, Salt Lake City (UT).

AMS Regional meeting.

Spring 2003 Stanford University, Palo Alto (CA).

Western Algebraic Geometry Seminar

Summer 2003 Cortona, ITALY.

Moduli, Lie Theory, Interactions with Physics

Summer 2003 Trento, ITALY.

CIRM Summer School on Fourier-Mukai Transforms

Fall 2003 University of British Columbia, Vancouver, CANADA.

Western Algebraic Geometry Seminar

Fall 2003 BIRS, Banff, CANADA.

The interaction of Gromov-Witten and Finite Type Invariants.

Spring 2004 MSRI, Berkeley (CA).

Introductory Workshop on Topological Aspects in Real Algebraic Geometry.

Spring 2004 University of Utah, Salt Lake City (UT).

Western Algebraic Geometry Seminar

Spring 2004 Northwestern University, Evanston (IL).

The Geometry of String Theory

Fall 2004 Colorado State University, Fort Collins (CO).

Western Algebraic Geometry Seminar