

CATERINA CONSANI

Curriculum Vitae

BIOGRAPHICAL INFORMATION

PERSONAL

Home Address:

3900 N. Charles Street #1409
Baltimore, MD 21218
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University Address:

Department of Mathematics
Johns Hopkins University (Krg 216)
3400 N. Charles Street
Baltimore, MD 21218
Phone: (410) 516-5116 (Voice Mail)

DEGREES

- Ph.D in Mathematics, June 1996, The University of Chicago, Chicago, IL (USA).
“Double Complexes and Euler L-Factors on Degenerations of Algebraic Varieties”.
Supervisor: Prof. S. Bloch (University of Chicago).
- Ph.D in Mathematics, July 1993, Universities of Genoa and Turin (Italy).
“Intersection Theories and K-Theory on Singular Varieties”.
Supervisor: Prof. C. Pedrini (University of Genoa).

EMPLOYMENT

Present Appointment

- Dept. of Mathematics, Johns Hopkins University
Professor of Mathematics, July 2008–
Associate Professor of Mathematics (tenured), January 2005-June 2008.

Research/Teaching Appointments held

- Dept. of Mathematics, University of Toronto, Toronto (ON), Canada.
Associate Professor of Mathematics (tenured), July 2003-December 2005
(on leave Jan.-Dec. 2005).
Assistant Professor of Mathematics, July 2000-June 2003.
Appointed to Graduate School: September 2000.

- School of Mathematics, Institute for Advanced Study, Princeton (USA).
Member at the School of Mathematics, September 1999 – June 2000.
- Department of Mathematics, M.I.T., Cambridge MA (USA).
C.L.E. Moore Instructor of Mathematics, September 1996 – June 1999.
- Department of Mathematics, Cambridge University, Cambridge (UK).
Research Associate, January-June 1998.

ACADEMIC HISTORY

RESEARCH ENDEAVORS

Subjects of interest: Arithmetic and Noncommutative Geometry, Number Theory.

RESEARCH AWARDS

- NSF-FRG Research Grant n. 0652431 (JHU), 2007-2010, \$210,001 (USD).
- NSERC Research Grant n. 72024520 (U. of Toronto), 2004-2005, \$100,000 (CAD).
- Connaught Grant (U. of Toronto), 2001-2003, \$12,000 (CAD).
- NSERC Research Grant n. 72016789 (U. of Toronto), 2000-2004, \$56,000 (CAD).
- NSF–DMS Research Grant n. 9701302 (M.I.T.), 1997-2000, \$60,341 (USD).
- EU Fellowship (Cambridge University UK), 1998 (6 months), 7,200 (GBP).

SYNERGISTIC ACTIVITIES

- Co-organizer of the JAMI program “Noncommutative Geometry, Arithmetic and Related Topics” at Johns Hopkins University, September 2008-May 2009.
- Co-organizer of the program “Arithmetic Geometry, Hyperbolic Geometry and Related Topics” at the Fields Institute (Toronto), July 2008-June 2009.
- Co-organizer of the Workshop “Noncommutative Geometry and Geometry over the Field with One Element” at Vanderbilt University, May 15-18 2008.
- Co-organizer of the Special Session on “Noncommutative Geometry and Arithmetic Geometry” at the AMS Fall Eastern Section Meeting New Brunswick, NJ, October 6-7, 2007.
- Co-organizer of the Workshop “Noncommutative Geometry and Number Theory II” at the Max Planck Institute (Bonn), 2004.
- Co-organizer of the Workshop “Noncommutative Geometry and Number Theory” at the Max Planck Institute (Bonn), 2003.

COLLABORATORS

1. Prof. Alain Connes (IHES, Collège de France and Vanderbilt U.).
2. Prof. Carel Faber (KTH Stockholm).
3. Prof. Minhyong Kim (University College, London).
4. Prof. Matilde Marcolli (Caltech, MPI-Bonn and Florida State U.).
5. Dr. Jasper Scholten (KU Leuven, Belgium).

GRADUATE AND POSTGRADUATE SCHOLAR SPONSOR

1. Prof. Alexander Goncharov (Brown University), Principal postdoctoral sponsor at MIT.
2. Prof. Spencer Bloch (The University of Chicago), Graduate advisor (Ph.D thesis at U. of Chicago).
3. Prof. Claudio Pedrini (University of Genoa), Graduate advisor (Ph.D thesis at the University of Genoa (Italy)).

STUDENTS AND POSTDOCTORAL SCHOLARS SUPERVISION

Students

1. Geoffrey Lynch (University of Toronto): Ph.D November 2007.
2. Abhishek Banerjee (Johns Hopkins U.): Ph.D March 2009 (expected).
3. Susama Agarwala (Johns Hopkins U., co-supervision): Ph.D December 2008 (expected).
4. Mehdi Tavakol (Johns Hopkins U., co-supervision): 2005-2007.

Postdoctoral Scholars

1. Eugene Ha (Johns Hopkins U.): 2006-2009.
2. Snigdhasyan Mahanta (Johns Hopkins U.): 2009.
2. Ramesh Sreekantan (U.of Toronto, currently at Tata Institute Mumbai): 2003-04.

SELECTED INVITED LECTURES (preceding 3 years)

- Colloquium Talk at Rutgers University, November 14 2008.
- Invited Talk at the Workshop on Arithmetic Geometry: Diophantine approximation and Arakelov theory, Fields Institute, Toronto, October 20-24 2008.

- Invited Talks (4) at Trimester Program on Geometry and Physics, Hausdorff Center for Mathematics, Bonn, July 2008.
- Invited Talk at the Mini-Symposium on “Applications on Noncommutative Geometry” at 5ECM Amsterdam, July 2008.
- Invited Talk at the Conference on “Motives, Quantum Field Theory and Pseudodifferential Operators”, Boston University, June 2-13, 2008.
- Invited Talk at the Workshop in “Noncommutative Geometry”, Fields Institute (Toronto) May 27 - 31, 2008.
- Invited Talk at “Seminaire d’ Algebres d’operateurs”, Chevaleret (Paris VI), April 2008.
- Invited Talk at the Workshop “Noncommutative Manifolds II”, International School for Advanced Studies (SISSA), Trieste, October 22-26, 2007.
- Colloquium Talk at Rutgers University (Newark), October 4, 2007.
- Invited Talk at the Conference “Trends in Noncommutative Geometry”, Northwestern U., Evanston IL, May 18-25, 2007.
- Invited Talk at the “Conference in Honor of Alain Connes”, IHES, Paris, March 29-April 6, 2007.
- Invited Talk at the Conference “Trends in Noncommutative Geometry”, Newton Institute, Cambridge (UK), December 18-22, 2006.
- Invited Talks (3) at “ The fourth annual Spring Institute on Noncommutative Geometry and Operator Algebras”, Vanderbilt U., Nashville TN, May 8-17 2006.
- Invited Talk at the BIRS Workshop on “Noncommutative Geometry”, Banff International Research Station (CA), April 8-13 2006.
- Invited Talks (3) at the Conference “Renormalisation et theories de Galois”, C.I.R.M. Luminy/Marseille (FR), March 13-17, 2006.
- Invited Talk at the Workshop on “Intersection of Arithmetic Cycles and Authomorphic Forms”, CRM Montreal (CA), December 12-16 2005.
- Invited Talk at the Workshop on “Arithmetic Geometry and High Energy Physics”, Lorentz Center, University of Leiden (NL), August 28–September 2 2005.
- Invited Talk at the Conference on “Arithmetic Geometry.”, University of Florida (Gainesville), February 2005.
- Invited Talk at the Conference on “K-Theory and Non-Commutative Geometry.”, IHP, Paris (FR), July 2004.

VISITING POSITIONS (preceding 3 years)

- Fields Institute, Toronto (Canada): October 2008.

- Hausdorff Research Institute for Mathematics, Bonn (Germany): July 2008.
- Institut des Hautes Études Scientifiques, Paris (France): January-April 2008.
- Max Planck Institut für Mathematik, Bonn (Germany): several visits.
- Institut Mittag-Leffler, Stockholm (SE): January & June 2007.
- Mathematisches Forschungsinstitut Oberwolfach, RIP program (Germany) May 2006.

ADMINISTRATIVE POSITIONS (preceding 3 years)

- Library Liaison 2005-2007 (JHU).
- Member of the JAMI Committee 2006-2007 (JHU).
- Member of the Hiring Committee Spring 2006, 2008-09 (JHU).
- Member of the Graduate Studies/Program Committee 2005-2006 (JHU).
- Member of the Assistant Reviews Committee 2005-2006 (JHU).

EDITORIAL WORK & REVIEWER/REFERREE SERVICE

- Member of the Editorial Board of the “Journal of Number Theory”.
- Co-Editor of “Noncommutative Geometry and Number Theory” Where Arithmetic meets Geometry and Physics, Aspects of Mathematics E 37, Vieweg-Verlag 2006.
- Referee Work for: “Canadian Journal of Mathematics”, “Journal of Number Theory”, “Journal of Algebraic Geometry”, “Journal für die reine und angewandte Mathematik” (Crelle’s Journal).

LIST OF COURSES (preceding 3 years)

UNDERGRADUATE COURSES

- MATH 110.106 “Calculus I”, Autumn 2007 (JHU).
- MATH 110.401 “Advanced Algebra I”, Autumn 2006, Autumn 2008 (JHU).
- MATH 110.402 “Advanced Algebra II”, Spring 2005 (JHU).
- MATH 110.211 “Honors Calculus III”, Autumn 2005 (JHU).
- MATH 110.201 “Linear Algebra”, Spring 2005 (JHU).

GRADUATE COURSES

- MATH 110.617 “Number Theory”, Autumn 2007 (JHU).
- MATH 110.738 “Topics in Algebraic Geometry: Motives”, Spring 2006 (JHU).
- MATH 110.643 “Algebraic Geometry: an introduction”, Autumn 2006 (JHU).
- MATH 110.737 “Topics in Algebraic Geometry: an introduction to sheaves and schemes theory”, Autumn 2005 (JHU).

READING COURSES

- “Introduction to algebraic K -theory”, (2005) Student: M. Tavakol (JHU).
- “Introduction to Hodge Structures”, (2006) Student: A. Banerjee (JHU).