

# CATERINA CONSANI

## Curriculum Vitae

### BIOGRAPHICAL INFORMATION

#### PERSONAL

##### Home Address:

3900 N. Charles Street #1409  
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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  
Associate Professor of Mathematics (tenured), January 2005 –

##### 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 and Arithmetic Geometry” 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 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 (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.
3. Prof. Claudio Pedrini (University of Genoa), Graduate advisor.

## **STUDENTS AND POSTDOCTORAL SCHOLARS SUPERVISION**

### **Students**

1. Geoffrey Lynch (University of Toronto): Ph.D 2007.
2. Abhishek Banerjee (Johns Hopkins U.): 2006-
3. Susama Agarwala (Johns Hopkins U., co-supervision): 2006-
4. Mehdi Tavakol (Johns Hopkins U., co-supervision): 2005-2007.

### **Postdoctoral Scholars**

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

## **SELECTED INVITED LECTURES** (preceding 3 years)

- Invited Talk at the “CMS Winter 2007 Meeting”, London (ON), Canada, December 8-10, 2007.
- Invited Talk at the Workshop “Noncommutative Manifolds II”, International School for Advanced Studies (SISSA), Trieste, October 22-26, 2007.
- Colloquium Talk at Rutgers University, 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)

- Institut des Hautes Études Scientifiques, Paris (France): January-March 2008.
- Hausdorff Research Institute for Mathematics, Bonn (Germany): May-July 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 (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 (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).