

Caterina Consani | Curriculum Vitae

The Johns Hopkins University, Department of Mathematics
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Research Endeavors: Arithmetic-Noncommutative Geometry, Algebraic Geometry, Number Theory

Education

The University of Chicago Ph.D in Mathematics (advisor: Prof. S. Bloch)	Chicago, IL 1996
Universities of Genoa and Turin Ph.D in Mathematics (advisor: Prof. C. Pedrini)	Italy 1993

Professional Experience

Department of Mathematics, Johns Hopkins University Professor of Mathematics Associate Professor of Mathematics	Baltimore, MD 2008- 2005-2008
Department of Mathematics, University of Toronto Associate Professor of Mathematics (tenured) Assistant Professor of Mathematics	Toronto, ON Canada 2003-2005 2000-2003
Institute for Advanced Study Member of the School of Mathematics	Princeton, NJ 1999-2000
Department of Mathematics, Cambridge University Research Associate	Cambridge, England 1998
Department of Mathematics, M.I.T. C.L.E. Moore Instructor	Cambridge, MA 1996-1999

Research Awards

Last 10 years

- Simons Foundation: Collaboration Grant for Mathematicians n. 691493 (2020-2025)
- Simons Foundation: Collaboration Grant for Mathematicians n. 353677 (2015-2020)
- National Science Foundation: NSF-DMS Special Meetings Grant n. 1854546 (2019-2020)
- National Science Foundation: NSF-DMS Special Meetings Grant n. 1701934 (Co-PI) (2017-2018)
- National Science Foundation: NSF-DMS Research Grant n. 1069218 (2011-2015)
- National Science Foundation: NSF-DMS Special Meetings Grant n. 0852421 (2009-2011)
- National Science Foundation: NSF-FRG Research Grant n. 0652431 (2007-2011)

Synergistic Activities

Last 10 years

Co-Organizer of the Conference "Cyclic Cohomology at 40"

International Conference, The Fields Institute, Toronto (Canada)

27 September-1 October 2021

Co-Organizer of the Workshop "Riemann-Roch in characteristic 1 and related topics"

Jami Program 2019, Johns Hopkins University, Baltimore (MD)

18-20 October 2019

Co-Organizer of the Conference "Toposes in Como"

Second edition of the Conference "Topos à l'IHES" (School & Conference)
Villa del Grumello, Como (Italy)

24-26 June 2018

Co-organizer of the Conference "Noncommutative Geometry: Number Theory"

Conference in honor of the 70th birthday of Alain Connes
Fudan University, Shanghai (China)

4-7 May 2017

Co-organizer of the Conference "Noncommutative Geometry - Festival"

Conference in honor of the 70th birthday of Henri Moscovici
University of Texas A&M, College Station TX

30 April-3 May 2014

Co-organizer of the Conference "Number-Theory and Related Topic", Johns Hopkins University

Jami Program 2013, Conference in honor of Takashi Ono

6-7 April 2013

Co-organizer of the Conference "Non-commutative Geometry and Arithmetic"

Jami Program 2011, Johns Hopkins University

22-25 March 2011

Visiting Positions

Last 10 years

- Ohio State University (Several visits: 2013-2019)
- Shanghai Center for Mathematical Sciences (China) (April-May 2017)
- Collège de France (Paris, France) (September 2014-May 2015)
- IHES (France) (November 2015)
- Hausdorff Center for Mathematics - Bonn (Germany) (November 2014)
- MFO - Oberwolfach (Germany) (Several visits 2011-2018)
- RIMS - Kyoto (Japan) (November 2010)
- Utrecht University (Netherlands) (March 2010)

Editorial Work & Reviewer Service

- Member of the Editorial Board of *Journal of the Institute of Mathematics of Jussieu*
- Member of the Editorial Board of *Journal of Number Theory*
- Member of the Editorial Board of *Rendiconti del Seminario Matematico della Università di Padova*
- Co-Editor of the Proceedings *Advances in Noncommutative Geometry, On the Occasion of Alain Connes' 70th Birthday*, Springer (2019)
- Co-Editor of the Proceedings *Proceedings of the 21st JAMI Conference, Baltimore 2009*, JHUP (2012)
- Co-Editor of the book *Noncommutative geometry and number theory: where arithmetic meets geometry and physics*, Aspects of Mathematics E 37, Vieweg-Verlag 2006
- Referree Work for (selected): NSF, NSERC, Simons Foundation, Royal Society URF (UK), Israel Science Foundation, Netherlands Organisation for Scientific Research, Notices of AMS, Math. Rev., Zentralblatt Math., Algebra & Number Theory, Canadian Journal of Mathematics, Journal of Number Theory, Journal of Algebraic Geometry, Journal of NCG, Journal für die reine und angewandte Mathematik, American Journal

of Mathematics, Journal of Algebra, Journal of Pure and Applied Algebra, Pacific Journal of Mathematics, etc

Student List

Years 2014-2021

- **Luqiao Xu** Ph.D. student (1st year) 2020-.
- **Sean Owen** Ph.D. student (3rd year) 2019-.
- **Benjamin Diamond** Ph.D. student 2016-2017 Thesis title: *Smooth Surfaces in Smooth Fourfolds with Vanishing First Chern Class.*
- **Kalina Mincheva** Ph.D. student 2011-2016 Thesis title: *Semiring congruences and tropical geometry.*
- **JaiUng Jun** Ph.D. student 2010-2015 Thesis title: *Algebraic geometry over semistructures and hyperstructures in characteristic one.*
- **Jeffrey Tolliver** Ph.D. student 2010-2015 Thesis title: *Hyperstructures and idempotent semistructures.*

Supervision of Undergraduate Theses

- **Sinan Ozdemir** Undergraduate student at JHU 2012-2013, Thesis title: *Elliptic Curves, Homomorphic Cryptography and its Applications.*

Postdoctoral Fellows List

Years 2010-2021

- **Aurélien Sagnier** J.J. Sylvester Assistant Professor 2019-2022