

PERSONAL INFORMATION

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POSITION

**Assistant Professor (Ricercatore a Tempo Determinato di Tipo B) -
University of Milan**

WORK EXPERIENCE

1 Mar 2019–Present **Assistant Professor (Ricercatore a Tempo Determinato di Tipo B)**
University of Milan, Department of Mathematics, Milan (Italy)

1 Jul 2018–28 Feb 2019 **Postdoc**
University of Florence, Florence (Italy)

1 Sep 2015–30 Jun 2018 **James H. Simons Instructor**
Stony Brook University, Stony Brook (USA)

1 Oct 2013–31 Aug 2015 **Postdoc**
University of Bonn, Bonn (Germany)

EDUCATION AND TRAINING

1 Aug 2008–31 Aug 2013 **Ph.D. in Mathematics**
University of Illinois at Chicago, Chicago (USA)

1 Oct 2006–31 Jul 2008 **Ph. D. Student in Mathematics**
University of Rome "Tor Vergata", Rome (Italy)

1 Sep 2004–30 Sep 2006 **Master Degree in Mathematics**
University of Rome "La Sapienza", Rome (Italy)

1 Sep 2001–30 Sep 2004 **Bachelor Degree**
University of Rome "La Sapienza", Rome (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s) German, English

Communication skills English Fluent
German Basic Level

Organisational / managerial skills

Partecipazione a progetti di ricerca:

Partecipazione progetto di ricerca SIR 2014 “AnHyC Analytic aspects in complex and hypercomplex geometry” (codice RBSI14DYEB). Leader del progetto: Prof. Daniele Angella, Università di Firenze

Partecipazione progetto di ricerca “The arithmetic of derived categories” finanziato dal Research Council of Norway. Leader del progetto: Prof. Sofia Tirabassi, University of Bergen

Partecipazione gruppo di ricerca Sonderforschungsbereich/Transregio 45 Mainz-Bonn-Essen: “Periods, moduli spaces and arithmetic of algebraic varieties” finanziato dalla DFG (German Research Foundation). Leader del progetto: Prof. Daniel Huybrechts, University of Bonn

Fondi e riconoscimenti per attività di ricerca:

Programma Giovani Ricercatori “Rita Levi Montalcini.” Totale fondi: €188000

Abilitazione Italiana Scientifica Nazionale, Professore di II fascia, Settore concorsuale 01/A2 Geometria e Algebra. Validità: 18/09/2018 - 18/09/2024 (art. 16 comma 1, Legge 240/2010)

Visiting grant, Max Planck Institute for Mathematics in Bonn.

Fondi di ricerca finanziati dalla “Simons Foundation”. Totale fondi: \$21000

Borsa di studio “Dean’s Scholar Award”, University of Illinois at Chicago

Premio di collaborazione scientifica, American Mathematical Society, Mathematics Research Communities

Research Assistantships, University of Illinois at Chicago

Didattica

Istruttore, Università degli Studi di Milano

- Corso di dottorato: Varietà di Kähler e Teoria di Hodge (10 ore), Marzo 2019

Istruttore, Università di Firenze

- Corso di dottorato: Coni di Divisori e Positività (15 ore), Febbraio 2019

Istruttore, Stony Brook University, Corsi di 45 ore

- Calcolo III: Funzioni a più variabili, Primavera 2018 - Introduzione all’Algebra Lineare, Autunno 2016

- Introduzione all’Algebra Lineare, Primavera 2017

- Introduzione all’Algebra Lineare, Autunno 2017

- Calcolo I, Autunno 2016

- Calcolo IV: Equazioni differenziali, Primavera 2015

Assistente, Stony Brook University, Corsi di 25 ore

- Calcolo III: Funzioni a più variabili, Primavera 2018
- Calcolo II, Autunno 2015

Istruttore, University of Bonn, Corso di 30 ore

- Fourier–Mukai Transforms in Algebraic Geometry, Corso per gli studenti del Master e Dottorato in Matematica, Semestre Invernale 2014

Assistente, University of Illinois at Chicago, Corsi di 30 ore

- Algebra Intermedia, Autunno 2008, Primavera 2009, Estate 2009
- Algebra Intermedia, Primavera 2009
- Algebra Intermedia, Estate 2009
- Precalcolo, Estate 2010
- Matematica Finita per Business, Autunno 2009 - Quantitative Reasoning, Primavera 2011
- Calculus for Business, Primavera 2010 - Calculus for Business, Estate 2011
- Calculus 1, Primavera 2013
- Calculus 1, Estate 2013

Esaminatore, University of Illinois at Chicago

- Geometria Algebrica I, Corso del Master e Dottorato, Autunno 2010, Autunno 2011

Relatore su invito a congressi e colloqui:

University of Arkansas, Relatore alla conferenza “Advances in Birational Geometry” for the American Mathematical Society Fall Southeastern sectional meeting. Data: 3/11/2018

University of Freiburg, Relatore al Research Focus “Cohomology in Algebraic Geometry and Representation Theory”. Titolo seminario: A decomposition theorem for the pushfor- wards of pluricanonical bundles under morphisms to abelian varieties. Data: 7/7/2017

Queensborough College of New York, Colloquio di dipartimento. Titolo seminario: Generic Vanishing Phenomena. Data: 19/4/2017

Università di Padova, Workshop “Recent advances in linear series and Newton–Okounkov bodies”. Titolo seminario: Generic vanishing theory and equivalences of irregular varieties. Data: 9/2/2015 - 13/2/2015

University of Bonn, Conference for young researchers in Arithmetic and Algebraic Ge- ometry. Titolo seminario: Deformations of minimal cohomology classes and regularity. Data: 6/10/2014 - 8/10/2014

Hausdorff Research Institute of Mathematics in Bonn, “Workshop on Derived Cat- egories”. Titolo seminario: Derived equivalences of irregular varieties and non-vanishing loci. Data: 10/2/2014 - 13/2/2014

Università degli Studi di Milano, “Workshop di Geometria Algebrica - Seminario di Natale”. Titolo seminario: Deformations of minimal cohomology classes and regularity. Data: 15/12/2014 - 16/12/2014

Torino, Conferenza “Giornate di Geometria Algebrica ed Argomenti Correlati XII”. Titolo seminario: Equivalenze derivate di varietà irregolari e luoghi di non annullamento. Data: 4/6/2014 - 7/6/2014

University of Wisconsin in Madison, Midwest Algebraic Geometry Graduate Conference. Titolo seminario: Derived equivalences of irregular varieties and Hochschild homology. Data: 3/11/2012 - 4/11/2012

Job-related skills**Pubblicazioni:**

- 1) Luigi Lombardi, Mihnea Popa e Christian Schnell. Pushforwards of pluricanonical bundles under morphisms to abelian varieties, Accettato per la pubblicazione in Journal of the European Mathematical Society
- 2) Luigi Lombardi e Wenbo Niu. Theta-regularity of curves and Brill–Noether loci, Mathematical Research Letters 23 (2016), no. 6, pp. 1761–1787
- 3) Marian Aprodu e Luigi Lombardi. On the vanishing of weight one Koszul cohomology of abelian varieties, Bulletin of the London Mathematical Society 48 (2016), no. 2, pp. 280–290
- 4) Luigi Lombardi e Sofia Tirabassi. Deformations of minimal cohomology classes on abelian varieties, Communications in Contemporary Mathematics 18 (2016), no. 4
- 5) Luigi Lombardi e Sofia Tirabassi. GV-subchemes and their embeddings in principally polarized abelian varieties, Mathematische Nachrichten 288 (2015), no. 11-12, pp. 1405–1412
- 6) Luigi Lombardi e Mihnea Popa. Derived equivalence and non-vanishing loci II, London Mathematical Society Lecture Note Series, 417 (2015), Recent Advances in Algebraic Geometry: volume in honor of R. Lazarsfeld, Cambridge University Press 2015, pp. 291–306
- 7) Luigi Lombardi. Derived invariants of irregular varieties and Hochschild homology, Algebra and Number Theory 8 (2014), no. 3, pp. 513-542
- 8) Luigi Lombardi. Inequalities for the Hodge numbers of irregular compact Kähler manifolds, International Mathematics Research Notices 2013 (2013), no. 1, pp. 63–83. ISSN: 1073-7928
- 9) Luigi Lombardi e Francesco Malaspina. The equations of singular loci of ample divisors on (subvarieties of) abelian varieties (con Francesco Malaspina), Le Matematiche LXIII (2008), no. I, pp. 155–166
- 10) Luigi Lombardi. Derived equivalences of irregular varieties and constraints on Hodge numbers, Thesis (Ph.D.) - University of Illinois at Chicago. 2013. 148 pp. ProQuest LLC

Preprints:

- 1) Katrina Honigs, Luigi Lombardi e Sofia Tirabassi. Derived equivalences of canonical covers of hyperelliptic and Enriques surfaces in positive characteristic. Preprint arXiv:1606.02094
- 2) Luigi Lombardi. Derived equivalence and fibrations over curves and surfaces. Preprint arXiv:1803.08656

3) Luca Di Cerbo e Luigi Lombardi. Moving Seshadri constants, and coverings of varieties of maximal Albanese dimension. Preprint arXiv:1902.04098

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Independent user	Proficient user	Basic user	Basic user	Proficient user

Digital skills - Self-assessment grid