Curriculum VITAE

Nome: Federico
Cognome: Binda

WORK EXPERIENCE

Associate Professor
Università degli Studi di Milano *October 2024 – present*
MATH 02A, ALGEBRA E GEOMETRIA

Assistant Professor tenure track (Ricercatore Tempo Determinato B)
Università degli Studi di Milano *September 2021 – September 2024*
MAT 02/ALGEBRA

Junior Assistant Professor (Ricercatore Tempo Determinato A)
Università degli Studi di Milano *June 2019 – September 2021*
MAT 02/ALGEBRA

Postdoctoral researcher
Universität Regensburg, Germany *Sep 2016 – May 2019*
Arbeitsgruppe Prof. Dr. Moritz Kerz
SFB 1085 HIGHER INVARIANTS

Wissenschaftlicher Mitarbeiter
Universität Duisburg-Essen, Germany *Sep 2015 – Aug 2016*
Arbeitsgruppe Prof. Dr. Marc Levine
DFG SPP 1786 HOMOTOPY THEORY AND ALGEBRAIC GEOMETRY

EDUCATION

Doktor der Naturwissenschaften – Mathematik (Ph.D.)
INSTITUTION	Universität Duisburg-Essen, Essen (Germany)	*10 August 2016*
DISSERTATION TITLE	Motives and algebraic cycles with moduli conditions	
GRADE	*summa cum laude*	
SUPERVISOR	Prof. Dr. Marc N. Levine	

Master 2 Recherche, Mathématiques Fondamentales et Appliquées
INSTITUTION	Université de Paris Sud, ENS Paris, École Polytechnique	*22 November 2012*
NOTE	Double degree program (ALGANT project, Erasmus Mundus Master)	

Laurea magistrale in Matematica
INSTITUTION	Università degli Studi di Milano	*18 July 2012*
DISSERTATION TITLE	Hodge-Tate decomposition theorem for Abelian Varieties over p-adic fields	
GRADE	*110/110 e lode*	
SUPERVISOR	Prof. Ahmed Abbes, CNRS - IHES (Bures-sur-Yvette, France)	

Laurea triennale in Matematica
INSTITUTION	Università degli Studi di Milano	*22 July 2010*
DISSERTATION TITLE	Units in quadratic number fields	
GRADE	*110/110 e lode*	
SUPERVISOR	Prof. Massimo Bertolini	

Long research visits and visiting positions

- **The University of Tokyo, Tokyo, Japan** *Spring 2027 (Planned)*
  Graduate School of Mathematical Sciences, Visiting Professor

- **Simons Laufer Mathematical Sciences Institute (SLMath)** *Fall 2026 (Planned)*
  Research Professor. Program "Motivic Homotopy Theory: Connections and Applications"

- **Isaac Newton Institute for Mathematical Sciences, Cambridge, UK** *3 May — 29 July 2022*
  Member. Scientific program "Algebraic K-theory, motivic cohomology and motivic homotopy theory - II"
  https://www.newton.ac.uk/event/kah

- **Center for Advanced Studies (CAS),**
  Norwegian Academy of Sciences and Letters, Oslo, Norway *Sep 2020 – Jun 2021*
  Research Fellow. Scientific program "Motivic Geometry"
  The program was held entirely online due to the COVID-19 pandemic
  https://cas.oslo.no/research-groups/motivic-geometry-article3332-827.html

- **Isaac Newton Institute for Mathematical Sciences, Cambridge, UK** *15 Mar — 22 May 2020*
  Scientific program "Algebraic K-theory, motivic cohomology and motivic homotopy theory"
  The program was postponed due to the COVID-19 pandemic
  https://www.newton.ac.uk/event/kah

- **Tata Institute of Fundamental Research (TIFR), Mumbai, India** *13-31 Jan 2019*
  Research visit
  Work in collaboration with Prof. Amalendu Krishna (TIFR)

- **Tata Institute of Fundamental Research (TIFR), Mumbai, India** *15 Jan – 11 Feb 2018*
  Research visit
  Work in collaboration with Prof. Amalendu Krishna (TIFR)
  Financed by TIFR and Universität Regensburg (DFG-SFB 1085 - grant Prof. Moritz Kerz)

- **Hausdorff Research Institute for Mathematics (HIM), Bonn, Germany** *08 May – 31 Aug 2017*
  Hausdorff Trimester program "K-Theory and related fields"
  Organizers: Guillermo Cortiñas, Hélène Esnault, Christian Haesemeyer, Holger Reich, Jonathan Rosenberg

- **Institut Mittag-Leffler, Djursholm, Sweden** *26 Mar – 30 Apr 2017*
  Spring term research program "Algebro-geometric and homotopical methods"
  Special thematic trimester
  Financed by Institut Mittag-Leffler
  Organizers: Eric M. Friedlander, Lars Hesselholt, Paul Arne Østvær.

- **Tata Institute of Fundamental Research (TIFR), Mumbai, India** *1 Nov – 10 Dec 2016*
  Research visit
  Work in collaboration with Prof. Amalendu Krishna (TIFR)
  Financed by TIFR and Universität Regensburg (DFG-SFB 1085 - grant Prof. Moritz Kerz)

- **Tata Institute of Fundamental Research (TIFR), Mumbai, India** *15 Sep – 10 Oct 2015*
  Research visit
  Work in collaboration with Prof. Amalendu Krishna (TIFR)
  Financed by TIFR e Alexander Von Humboldt foundation (grant Prof. Marc N. Levine)

- **Tata Institute of Fundamental Research (TIFR), Mumbai, India** *1-19 Sep 2014*
  Research visit
  Work in collaboration with Prof. Amalendu Krishna (TIFR)
  Financed by TIFR e Alexander Von Humboldt foundation (grant Prof. Marc N. Levine)

Talks at international conferences

October 2025	**Rencontre ANR DAG Arts** "Derived logarithmic geometry" (3 hours mini-course) University of Angers, France
October 2025	**Higher Invariants: interactions between arithmetic geometry and global analysis** "Relative Hyodo-Kato cohomology" SFB Closing Conference. University of Regensburg, Germany
August 2025	**Workshop "Algebraic K-Theory"**

"p-adic deformation of algebraic cycles and the log Bloch-Esnault-Kerz fiber square"
MFO Oberwolfach, Germany

April 2025	**Conference "Recent Developments in Algebraic K-Theory"** "Infinite root stacks and the Beilinson fiber square" University of Warwick, UK
March 2025	**Conference "Motivic homotopy theory 2025"** "Infinite root stacks and the Beilinson fiber square" University of Regensburg, Germany
July 2024	**Conference "Algebraic K-Theory and Arithmetic"** "Log prismatic cohomology, motivic sheaves and slice filtrations" Bedlewo, Poland
March 2024	**Conference "Motives in Mainz"** "Prismatic cohomology, motivic sheaves and comparison theorems" University of Mainz, Germany
February 2024	**Workshop "Incontri di geometria algebrica e aritmetica** "Prismatic cohomology, motivic sheaves and comparison theorems" University of Pisa, Italy
August 2023	**Conference "1786 Abschlusstagung'** "Motivic monodromy and p-adic cohomology theories" University of Duisburg-Essen, Essen, Germany
February 2023	**Conference "Motives in Tokyo'** "Motivic monodromy and p-adic cohomology theories" University of Tokyo, Japan
October 2022	**Conference "Motives, quadratic forms and arithmetic'** "On the logarithmic Hochschild- Kostant-Rosenberg theorem" University of Lens, France
August 2022	**Conference "Motivic Geometry'** "On the logarithmic Hochschild-Kostant-Rosenberg theorem" University of Oslo, Norway
July 2022	**Conference "Harnessing motivic invariants'** "On the p-adic weight- monodromy conjecture for complete intersections in toric varieties" Satellite ICM 2022; University of Duisburg-Essen, Essen, Germany
June 2022	**Workshop "Algebraic K-theory, motivic cohomology and motivic homotopy theory'** "On the logarithmic Hochschild-Kostant-Rosenberg theorem" Isaac Newton Institute, University of Cambridge, UK
May 2022	**Workshop "Algebraic K-Theory"** "On the p-adic weight-monodromy conjecture for complete intersections in toric varieties" MFO Oberwolfach, Germany
Sep 2020	**Conference: Motivic geometry** "Triangulated motives for logarithmic schemes" Center for Advanced Studies, Oslo, Norway (virtual)
Jul 2020	**IHES 2020 Summer School Motivic, equivariant and non-commutative homotopy theory** "Motives for logarithmic schemes" IHES, Paris, France (virtual)
Sep 2019	**Regulators in Niseko** "Triangulated categories of log motives over a field" Hokkaido University Sapporo, Japan
Feb 2019	**International workshop on Motives in Tokyo** "Semipurity for cycles with modulus" University of Tokyo, Tokyo, Japan
Sep 2018	Conference **Motives in St. Petersburg: Motives and their applications** "Rigidity for cycles of relative dimension zero" Euler International Mathematical Institute, St. Petersburg, Russia

Jul 2018	Workshop **Motives and algebraic cycles** "Specialisation theorems for cycles of relative dimension zero" Freiburg Institute for Advanced Studies, (FRIAS), Germany
Mar 2018	Conference **Motives in Tokyo, on the occasion of Shuji Saito's 60th Birthday** "Rigidity for relative 0-cycles" University of Tokyo, Tokyo, Japan
Feb 2018	Conference K-**theory, $\mathbb{A}^1$-homotopy and quadratic forms** "Rigidity for relative 0-cycles" University of Warwick, Coventry, UK
Jun 2017	Workshop: K-**theory and related fields** "Towards a motivic (homotopy) theory without A1-invariance" Hausdorff Research Institute for Mathematics, Bonn, Germany
Feb 2017	**International workshop on Motives in Tokyo** "Zero cycles with modulus and zero cycles on singular varieties" University of Tokyo, Tokyo, Japan
Nov 2016	Workshop **Around motives** Cycles with modulus and non $\mathbb{A}^1$-invariant motives Università degli studi di Milano
Jun 2016	Workshop **Homotopical approaches to categories and geometry** "Beyond homotopy invariance: on motives with moduli conditions" University of Freiburg, Freiburg, Germany
Apr 2016	**Generalizations of $\mathbb{A}^1$-homotopy invariance in algebraic geometry and homotopy theory** "Zero cycles with modulus and zero cycles on singular varieties" Freie Universität Berlin, Zinnowitz-Usedom, Germany
Oct 2014	**Conference for Young Researchers in Arithmetic and Algebraic Geometry** "Algebraic Cycles with modulus and Applications" University of Bonn, Bonn, Germany
Sep 2011	Summer school **Cohomology theories: a roadmap** "Model categories, a tour de force" ALGANT Summer School in Brixen-Bressanone & University of Padova, Italy

Publications

1. **Logarithmic TC via the Infinite Root Stack and the Beilinson Fiber Square** (with Tommy Lundemo, Alberto Merici, and Doosung Park). (20 pages, 2024). arXiv:2408.15627 [math.AG]. to appear in *Transactions of the AMS*. doi.org/10.1090/tran/9664

2. **Logarithmic motivic homotopy theory** (with Doosung Park and Paul Arne Østvaer). (145 pages, 2025). arXiv:2303.02729 [math.AG]. to appear in *Memoirs of the AMS*.

3. **Motivic monodromy and p-adic cohomology theories** (with Martin Gallauer and Alberto Vezzani). (51 pages, 2024). arXiv:2306.05099 [math.AG], published online first in *J. European Math. Soc. (JEMS)*.

4. **On the logarithmic slice filtration** (with Doosung Park and Paul Arne Østvaer). *Geometry and Topology (G&T)*, 29 (2025), no. 5, 2653–2693. arXiv:2403.03056 [math.AG].

5. **On the p-adic weight monodromy conjecture for complete intersetions in toric varieties** (with Alberto Vezzani and Hiroki Kato). *Inventiones Math.* Volume 241, pages 559–603, (2025). arXiv:2207.00369 [math.AG].

6. **Logarithmic prismatic cohomology via logarithmic THH** (with Tommy Lundemo, Doosung Park and Paul Arne Østvaer). *Int. Math. Res. Not. IMRN*. Volume 2023, Issue 22, November 2023, Pages 19641–19696.

7. **A Hochschild-Kostant-Rosenberg theorem and residue sequences for logarithmic Hochschild homology** (with Tommy Lundemo, Doosung Park, Paul Arne Østvaer). *Advances in Math.* Volume 435, Part A, (2023). arXiv:2209.14182 [math.AG]. .

8. **Derived log Albanese sheaves** (with Alberto Merici and Shuji Saito) *Advances in Math.* Volume 417 (2023), arXiv:2107.00984 [math.AG].

9. **Suslin homology via cycles with modulus and applications** (with Amalendu Krishna) *Transactions of the AMS.*, (27 pages, 2022). arXiv:2202.06808 [math.AG].

10. **Connectivity and purity for logarithmic motives** (with Alberto Merici). (42 pages, 2020). *J. of the Inst. of Math. Jussieu*, arXiv:2012.08361 [math.AG].

11. **On the cohomology of reciprocity sheaves** (with Kay Rülling and Shuji Saito). (116 pages, 2020). *Forum of Math. Sigma*, arXiv:2010.03301 [math.AG].

12. **Triangulated categories of logarithmic motives over a field** (with Paul Arne Østvær and Doosung Park). (250 pages, 2020). Asterisque, Tome 433, pp. 280, arXiv:2004.12298 [math.AG].

13. **Zero cycle groups on algebraic varieties** (with Amalendu Krishna). *J. de l'Ecole Polytechnique – Mathematiques.*, Vol. 9 (2022), pp. 281-325. arXiv:2104.07968 [math.AG].

14. **Bloch's formula for 0-cycles with modulus and higher dimensional Class Field Theory** (with Amalendu Krishna and Shuji Saito). *J. of Algebraic Geom.*, (46 pages, 2020). arXiv:2002.01856 [math.AG]. .

15. **Rigidity for relative 0-cycles** (with Amalendu Krishna). *Ann. Sc. Norm. Super. Pisa Cl. Sci. (5)*, Volume XXII, Issue 1, pp. 1-27, 2021. Published version.

16. **A Motivic homotopy theory without $\mathbb{A}^1$-invariance**. *Math. Zeitschrift*, Volume 295, pp. 1475-1519, 2020 Published version.

17. **Relative cycles with moduli and regulator maps** (with Shuji Saito). *J. of the Inst. of Math. Jussieu*, Volume 18, Issue 6, November 2019, pp. 1233-1293. Published version.

18. **Zero cycles with modulus and zero cycles on singular varieties.** (with Amalendu Krishna) *Compositio Math.*, Volume 154, 1, January 2018, pp. 120-187. Published version.

19. **Torsion zero cycles with modulus on affine varieties.** *J. of Pure and App. Algebra*, Volume 222, Issue 1, January 2018, pp. 61-74. Published version.

20. **A cycle class map for zero cycles with modulus to higher relative K-groups.** *Documenta Math.*, Volume 23, pp. 407-444, 2018. Published version.

21. **Torsion and divisibility for reciprocity sheaves and 0-cycles with modulus**. (with Jin Cao, Wataru Kai and Rin Sugiyama) *J. of Algebra*, Volume 469, 1 January 2017, pp. 437–463. Published version.

PREPRINTS

1. **On the p-adic deformation problem for the K-theory of semistable schemes** (with Tommy Lundemo, Alberto Merici, and Doosung Park). (22 pages, 2026). arXiv:2601.14146 [math.AG].

2. **A motivic approach to rational p-adic cohomologies** (with Alberto Vezzani). (28 pages, 2025). arXiv:2508.16196 [math.AG]. Submitted.

3. **Logarithmic prismatic cohomology, motivic sheaves, and comparison theorems** (with Tommy Lundemo, Alberto Merici, and Doosung Park). (51 pages, Revised 2025). arXiv:2312.13129 [math.AG]. Submitted.

4. **Descent problems for derived Azumaya algebras** (with Mauro Porta). (33 pages, Revised 2023). arXiv:210703914 [math.AG]. Submitted.

THESIS **Motives and algebraic cycles with moduli conditions.**
Ph.D. thesis, University of Duisburg-Essen (2016).
DuEPublico ID: 41950. Online version.

EDITORIAL ACTIVITY

Editor of the following volumes:

1. **Regulators V**
with José Ignacio Burgos Gil, James Lewis, Deepam Patel, Gregory Pearlstein
Contemporary Mathematics, To appear (2026)

2. **Motivic homotopy theory and refined enumerative geometry**
with Marc Levine, Oliver Röndigs, Toan Manh Nguyen
Contemporary Mathematics, Volume 745, American Mathematical Soc., (2020). doi:10.1090/conm/74

RESEARCH GROUPS

- PRIN 2022 - The arithmetic of motives and L-functions (membro dell'unità locale)   *2022 – 2025*

- Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni, INDAM *2020 – 2022*
- Member of the Collaborative Research Center (SFB) 1085, "Higher Invariants", DFG (Germany). *1 Sep 2016- 31 May 2019*
  Scientific project: "Cycle Classes in p-Adic Cohomology"
  Coordinator: Moritz Kerz (Regensburg)
  Webpage: http://www-app.uni-regensburg.de/Fakultaeten/MAT/sfb-higher-invariants/index.php/About
- Member of the Special Priority Program (SPP) 1786, "Homotopy Theory and Algebraic Geometry", DFG (Germany). *01 Oct 2015- 30 Aug 2016*
  Scientific project: "Motives with modulus".
  Coordinators: Hélène Esnault (Berlin), Marc N. Levine (Essen), Moritz Kerz (Regensburg).
  Webpage: https://www.uni-due.de/~bm0032/SPP1786/Web/projects_EsnaultKerzLevine

SHORT RESEARCH VISITS

Sept 2024	**University of Tokyo**, Japan | Host: Shuji Saito
Sept 2023	**University of Tokyo**, Japan | Host: Shuji Saito
Dec 2019	**ETH Zürich**, Switzerland | Host: Joseph Ayoub
Mar 2019	**Oslo University**, Norway | Host: P.-A. Østvær
Apr 2018	**Tohoku University**, Japan | Host: T. Yamazaki
Mar 2018	**Oslo University**, Norway | Host: P.-A. Østvær
Dec 2017	**Tohoku University**, Japan | Host: T. Yamazaki
Feb 2017	**Tohoku University**, Japan | Host: T. Yamazaki

SUMMER SCHOOLS AND THEMATIC WORKSHOPS (SELECTION)

Mar 2025   **Simons collaboration on Perfection in Algebra, Geometry and Topology Annual Meeting**
Simons Foundation, NY, USA

Nov 2023   **Workshop on p-adic arithmetic geometry**
Organizers: Bhargav Bhatt (IAS/Princeton/Michigan), Kestutis Cesnavicius (CNRS Université Paris-Saclay), Jacob Lurie (IAS)
IAS, Princeton, USA

July 2023   **Recent advances in algebraic K-theory**
Organizers: Benjamin Antieau (Northwestern University), Lars Hesselholt (University of Copenhagen / Nagoya University), and Matthew Morrow (CNRS and Université Paris-Saclay)
IHES, France

Nov 2020   **Masterclass in Condensed Mathematics.** Lecture series by Peter Scholze and Dustin Clausen.
Organizers: Lars Hesselholt, Ryomei Iwasa, Markus Land, Piotr Stragowski.
University of Copenhagen, Denmark (Virtual)

Jun 2019   Workshop **Algebraic K-theory**.
Organizers: Thomas Geisser, Lars Hesselholt, Annette Huber-Klawitter, Moritz Kerz.
Mathematisches Forschungsinstitut Oberwolfach (MFO), Oberwolfach, Germany

Sep 2018   **Motives in St. Petersburg**, Summer school "Motives and related structures".
Organizers: Alexey Ananyeavskiy, Ivan Panin, Grigory Garkusha. Euler International Mathematical Institute, St. Petersburg, Russia

Jul 2016   **Algebraic K-theory and motivic cohomology**
Organizers: Thomas Geisser, Annette Huber-Klawitter, Uwe Jannsen, Marc Levine
Mathematische Forschungsinstitut Oberwolfach (MFO), Oberwolfach, Germany

Aug 2015   Summer school **Algebraic K-theory and trace methods**. Lecture series by Lars Hesselholt e Chuck Weibel.
University of Regensburg, Regensburg, Germany.

Jul 2015   **AMS Summer Institute (Algebraic Geometry)**
Organizers: Hélène Esnault, Mark Kisin, Peter Scholze, Shou-Wu Zhang
University of Utah, Salt Lake City, USA.

Mar 2015	School "*p*-**adic arithmetic**". Lecture series by Gabriel Dospinescu, Laurent Fargues, e Eike Lau. University of Duisburg-Essen, Essen, Germany.	
Nov 2014	**International Workshop on motives in Tokyo** University of Tokyo, Tokyo, Japan	
Oct 2014	Summer school **Continuous K-theory of p-adic rings (after Beilinson)** Organizers: Hélène Esnault, Moritz Kerz Universität Regensburg, Germany at Marburger Haus, HirscheggKleinwalsertal, Austria	
Nov 2013	**International Workshop on motives in Tokyo** University of Tokyo, Tokyo, Japan	
Sep 2013	Summer school **Motivic Galois group**. Lectures by Joseph Ayoub, Yves André and Marc Levine Alfréd Rényi Institute of Mathematics, Budapest, Hungary	

TEACHING

- **Derived Geometry** *Spring 2025*
  Ph.D Course *Università degli studi di Milano*
  Lectures, 15 hours.

- **Algebra 4** *Spring 2025*
  Laurea triennale in Matematica *Università degli studi di Milano*
  (6 CFU) Lectures, 36 hours.

- **Commutative Algebra** *Fall 2024*
  Master ALGANT / laurea Magistrale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures, 42 hours.

- **Algebra 2** *Fall 2024*
  Laurea triennale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures, 27 hours.

- **Homological Algebra** *Spring 2024*
  Master ALGANT / laurea Magistrale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures, 14 hours.

- **Algebra 4** *Spring 2024*
  Laurea triennale in Matematica *Università degli studi di Milano*
  (6 CFU) Exercises, 24 hours.

- **Algebra 2** *fall 2022*
  Laurea triennale in Matematica (6 CFU) *Università degli studi di Milano*
  Exercises, 24 hours.

- **Homological Algebra** *Spring 2023*
  Master ALGANT / laurea Magistrale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures, 21 hours.

- **Algebra 2** *Fall 2022*
  Laurea triennale in Matematica (6 CFU) *Università degli studi di Milano*
  Exercises, 24 hours.

- **Commutative Algebra** *fall 2022*
  Master ALGANT / laurea Magistrale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures and exercises, 19 hours.

- **Homological Algebra** *Spring 2022*
  Master ALGANT / laurea Magistrale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures, 21 hours.

- **Algebra 2** *fall 2021*
  Laurea triennale in Matematica (6 CFU) *Università degli studi di Milano*
  Exercises, 24 hours.

- **Commutative Algebra** *fall 2021*
  Master ALGANT / laurea Magistrale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures and exercises, 19 hours.

- **Homological Algebra** *Spring 2021*
  Master ALGANT / laurea Magistrale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures, 21 hours.

- **Commutative Algebra** *fall 2020*
  Master ALGANT / laurea Magistrale in Matematica (6 CFU) *Università degli studi di Milano*
  Lectures and exercises, 19 hours.

- **Matematica del Discreto** *fall 2019*
  Laurea triennale in Sistemi e Sicurezza delle Reti Informatiche *Università degli studi di Milano*
  (6 CFU) Lectures and exercises, 16 hours.

- **Commutative Algebra** *fall 2019*
  Master ALGANT / laurea Magistrale in Matematica (9 CFU) *Università degli studi di Milano*
  Lectures and exercises, 27 hours.

- **The Grothendieck-Riemann-Roch theorem** *spring 2018*
  Master and PhD course (3 ECTS) *Universität Regensburg (Germany)*
  Lecturer (in collaboration with Adeel Khan (Uni Regensburg))
  Webpage: https://www.preschema.com/teaching/grr-ss18

- **Zero cycles on singular varieties** *04/2017 - 07/2017*
  Master and PhD course (12 hours) *Universität Regensburg (Germany)*

- **Algebraic Geometry III** *10/2015-02/2016*
  Bachelor in Mathematics (26 hours) *Universität Duisburg-Essen (Germany)*
  Teaching assistant (lecturer A. Rodriguez)
  Program: abelian varieties, algebraic and complex theory
  Webpage: https://www.esaga.uni-due.de/marc.levine/Courses/2015/AlgGeom3/

- **Commutative Algebra** *06/10/2015-16/10/2015*
  Intensive course for master students (2 weeks, 28 hours) *Universität Duisburg-Essen (Germany)*
  Lecturer
  Webpage: https://www.esaga.uni-due.de/marc.levine/Courses/2015/ComAlgShort/

- **Algebra II** *04/2015 - 07/2015*
  Bachelor in Mathematics (26 hours) *Universität Duisburg-Essen (Germany)*
  Teaching assistant (lecturer Prof. Marc Levine)
  Program: ring theory, modules, elements of affine algebraic geometry
  Webpage: https://www.esaga.uni-due.de/marc.levine/Courses/2015/Algebra2/

- **Algebra I** *04/2011 - 07/2011*
  Laurea triennale in matematica *Università degli studi di Milano*
  Tutoring (lecturer Prof. Luca Barbieri-Viale)

STUDENT SUPERVISION

Ph.D. thesis advisor	*(Started) 2024*
Student: Xiaomin Chu	*University of Milano*
Ph.D. thesis advisor	*(Started) 2023*
Student: Ruichuan Zhang	*University of Milano*
Ph.D. thesis advisor	*(Started) 2022*
Student: Nikolai Thode Opdan	*University of Oslo*
Co-supervision with Prof. Paul Arne Østvær	

Master thesis advisor *2021*
Student: Ottavio Bartenor *Università degli Studi di Torino*
Co-supervision with Prof. Elena Martinengo

Master thesis advisor *2022*
Student: Luca Passolunghi *Università degli Studi di Milano*
Co-supervision with Prof. Alberto Vezzani

POSTDOC SUPERVISION

Postdoc supervision *2024-2025*
Dr. Raphaël Ruimy *Università degli Studi di Milano*
(joint with F. Andreatta)

ORGANIZATION OF WORKSHOPS & SEMINARS

September 2025	"Yatsugatake workshop 2025: Wild ramification and Etale homotopy, Haramura, Nagano, Japan. Financed by JSPS, ERC. With Piotr Achinger (Warsaw), Ko Aoki (MPIM), Wataru Kay (Tohoku), Alberto Merici (Heidelberg), Hiroyasu Miyazaki (NTT), Shuji Saito (Tokyo)
January 2025	"Algebraic geometry: a motivic view. Conference in honour of Marc Levine", ETH Zurich, Switzerland. Financed by ETH, K-Theory Foundation, Conference website. With Aravind Asok (USC), Joseph Ayoub (UZurich), Elden Elmanto (Toronto), Maria Yakerson (Oxford)
September 2024	"Yatsugatake workshop 2024: Chromatic Homotopy Theory", Haramura, Nagano, Japan. Financed by JSPS, K-Theory Foundation, Foundation Nagoya Math. Journal. Conference website. With Ko Aoki (MPIM), Ryomei Iwasa (Orsay), Alberto Merici (Heidelberg), Hiroyasu Miyazaki (NTT), Shuji Saito (Tokyo)
June 2024	"Regulators V - a conference in honor of Spencer Bloch and Rob de Jeu", University of Pisa, Italy. with J. Lewis, D. Patel, G. Pearlstein, T. Szamuely. Financed by Compositio Foundation, K-theory Foundation, NSF, Clay Math. Institute, INdAM. The proceedings of the conference will be published by the AMS.
Sep 2023	"Yatsugatake workshop 2023: Condensed Mathematics and analytic K-theory", Haramura, Nagano, Japan. Financed by JSPS (Grant Prof. S. Saito and Prof. T. Terasoma). Conference website.
Sep 2023	"Giovani ricercatori in algebra e geometria", Università degli Studi di Roma Tor Vergata, Roma. Financed by INDAM.
Feb 2022	"Motives from 1 to 62". Università degli Studi di Milano. Conference site Financed by Compositio Foundation, K-Theory Foundation, LYSM. With F. Andreatta and A. Vezzani
Sep 2021	"The six-functor formalism and motivic homotopy theory". Università degli Studi di Milano. Financed by the Research Council of Norway. With A. Vezzani and Paul Arne Østvær.
2-6 Sep 2019	"Yatsugatake workshop 2019: Derived algebraic geometry", Haramura, Nagano, Japan. Financed by JSPS (Grant Prof. S. Saito and Prof. T. Terasoma). Conference website.
14-18 May 2018	International workshop "Motives and refined enumerative geometry", Universität Duisburg-Essen (Germany). Financed by the DFG, project SPP 1786. Conference website. The proceedings of the conference have been published by the AMS.
fall 2015	Seminar of the algebraic and arithmetic geometry's research group, Universität Duisburg-Essen (Germany). Topic: "Class Field theory for varieties over finite fields". Link to official program.
2013-2015	Seminars for graduate school of the University of Duisburg-Essen (3 series: "Intersection theory", "Hodge theory", "Deformation theory")

REFEREE

- **Referee activity**. Full referee reports or quick opinions for the following journals: Acta Mathematica, Nagoya Journal of Math., Mathematical Research Letters, Journal of the American Math. Soc. (JAMS), Inventiones Math., Inter. Math. Res. Notices (IMRN), Journal of the Inst Math. Jussieu., Canadian Journal of Math., Canadian Math. Bull. Advances in Math., Crelle, Epiga, HHA, Selecta Math., Documenta Math., Ann. of K-Theory, Ann. Sc. Norm. Sup.
- **Reviewer activity** for Math. Reviews (AMS) (Until 2024)
- **Other referee activities:**
  - Referee for the Ph.D. thesis of Sandeep R. (2026, Tata Institute of Fundamental Research, India)
  - Referee for the Ph.D. thesis of Xinyu Shao (2025, Sorbonne University)
  - Referee for the Ph.D. thesis of Mainak Gosh (2021, Tata Institute of Fundamental Research, India)
  - Referee for the Ph.D. thesis of Gretar Mär Ragnarsson Amazeen (2020, University of Wuppertal)
  - Referee for the Deutsche Forschungsgemeinschaft (DFG) in the evaluation of grant proposals.

QUALIFICATIONS

Maître de conférences	*Obtained in 2017*
Conseil National des Universités (CNU), France, section 25 (pure mathematics)	
Abilitazione Scientifica Nazionale, seconda fascia	*03/07/2020 – 03/07/2029*
Bando DD 2175/2018, S.C. 01/A2 Geometria e Algebra	
Abilitazione Scientifica Nazionale, prima fascia	*24/10/2023 – 24/10/2034*

Bando DD 553/2021, S.C. 01/A2 Geometria e Algebra

RECOGNITION

- Elected member of the K-theory foundation *September 2023*
- Admitted to the final step of the ERC Starting Grant 2023 MOTIVIC LOGARITHMIC GEOMETRY (MOLOGE). Final panel score: A (fully meets the ERC's excellence criterion and is recommended for funding if sufficient funds are available)

SERVICE

- Math. Department representative in the Open Science committee, University of Milano (since 2023).
- Gender Equality Committee, Dipartimento di Matematica "F.Enriques", Unimi.
- (Previously) Math. Department representative in the Academic Committee for fixed term researchers (Università degli Studi di Milano).

OUTREACH

Outreach publications:

- **How to apply for a postdoc in Europe?** with Chiara Damiolini. Notices of the American Mathematical Society 67 (10), 1563-1565 (2020)
- **Is there a Human Right to Open Science? (Il diritto umano alla scienza aperta)** with Roberto Caso. - [s.l] : Universitità di Trento, (2020) (TRENTO LAW AND TECHNOLOGY RESEARCH GROUP RESEARCH PAPER SERIES) [10.5281/zenodo.4053531]

Other outreach activities:

- Advisor COPER (Consulta degli Enti pubblici di Ricerca) for Open Science, coordinated by INFN (Istituto Nazionale di Fisica Nucleare), since 2022.

Milano, January 22, 2026