

Michele Pernice

Curriculum Vitae

Via Gioberti 42
56124 Pisa, Italy
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Birthdate: 11 August 1994
Nationality: Italian

Current Position

21/12/2022 onwards Post-doc at KTH, Stockholm (Sweden)

Past Positions

05/11/2018 PhD student at Scuola Normale Superiore, Pisa (Italy)
15/12/2022

Areas of Interest

Deformation Theory via DGLAs; Intersection Theory of Algebraic Stacks: Equivariant Intersection Theory, Intersection Theory of moduli of curves; Grothendieck Ring of Algebraic Stacks; Spectral Algebraic Geometry: Derived Azumaya Algebras.

Publications and Preprints

Michele Pernice, *A_r -stable curves and the Chow ring of $\overline{\mathcal{M}}_3$* , preprint on arXiv, 2022;
<https://arxiv.org/abs/2211.09793>

Guglielmo Nocera, Michele Pernice, *The derived Brauer map via twisted sheaves*, preprint on arXiv, 2022;
<https://arxiv.org/abs/2205.07789>

Andrea Di Lorenzo, Michele Pernice, Angelo Vistoli, *Stable cuspidal curves and the integral Chow ring of $\overline{\mathcal{M}}_{2,1}$* , accepted for publication on "Geometry and Topology", preprint on arXiv, 2021;
<https://arxiv.org/abs/2108.03680>

Michele Pernice, *The Integral Chow Ring of the Stack of 1-Pointed Hyperelliptic Curves*, International Mathematics Research Notices, Volume 2022, Issue 15, July 2022, Pages 11539–11574,
<https://doi.org/10.1093/imrn/rnab072>

Undergraduate Education

27/09/2016 **‘Laurea Magistrale’ (Master Degree) in Mathematics**, The University of Rome ‘Sapienza’,
23/07/2018 Rome (Italy).

Thesis entitled: “*Deformations of smooth Deligne-Mumford stacks via differential graded Lie algebras*”
Advisor: Prof. Marco Manetti
110/110 cum laude

02/10/2013 **‘Laurea Triennale’ (Bachelor Degree) in Mathematics**, The University of Rome ‘Sapienza’,
19/07/2016 Rome (Italy).

Thesis entitled: “*Deformations of Singularities*”
Advisor: Prof. Marco Manetti
110/110 cum laude

15/09/2008 **‘Diploma di Maturità’**, Liceo Scientifico ‘Vito Volterra’, Ciampino, Rome (Italy).
10/07/2013 100/100 cum laude

Talks and Seminars

27/05/2022 "Results about the Chow ring of moduli of stable curves of genus three", *100 years of UMI - 800 years of UniPD*, Università di Padova,
<https://www.100umi800unipd.it>

09/05/2022 "Results about the Chow ring of moduli of stable curves of genus three", Essener Seminar,
<https://www.esaga.uni-due.de/jochen.heinloth/ss22/seminar/pernice/>

- 01/04/2022 "Results about the Chow ring of moduli of stable curves of genus three", KTH Royal Institute of Technology,
<https://www.kth.se/math/kalender?date=2022-04-01&length=30>
- 25/03/2022 "Results about the Chow ring of moduli of stable curves of genus three", Humboldt Universität zu Berlin
- 18/03/2022 "Results about the Chow ring of moduli of stable curves of genus three", University of Utrecht

Lectures

- 12/2020-01/2021 Lecturer for the reading course “*Corso di letture di Derived Algebraic Geometry X: Formal moduli problems*” at University of Pisa (Italy).
- 28/02/2019 Lecturer for the reading course “*Corso di letture di Fourier-Mukai transforms in Algebraic Geometry*” at University of Pisa (Italy).
- 15/12/2015 Lecturer for the reading course “Cotangent Complex and Deformation Theory” at University of Rome ‘Sapienza’ (Italy). Title : “*Derivations and Differentials*”.
<http://www1.mat.uniroma1.it/people/manetti/AGA/aga14.html>
- 20/04/2017 Lecturer for the reading course “Corso di letture di Lie Methods in Deformation Theory” ad University of Rome ‘Sapienza’ (Italy). Title : “*Functors of Artin Rings and Deformations of Locally Free Sheaves*”.
<http://www1.mat.uniroma1.it/people/manetti/AGA/aga17.html>

Participation to conferences and workshop

- 19/09/2022 "Recent Perspectives on Hodge Theory", Centro De' Giorgi, Pisa (Italy).
<https://www.sns.it/en/node/93048>
- 18/07/2022 "Geometry and Arithmetic of Moduli Spaces", Università degli studi di Pisa, Pisa (Italy).
<http://mittag-leffler.se/konferens/moduli-curves-stockholm>
- 22/07/2022 <http://mittag-leffler.se/konferens/moduli-curves-stockholm>
- 02/06/2022 "Moduli of curves in Stockholm", Institut Mittag-Leffler, Djursholm (Sweden).
- 03/06/2022 <http://mittag-leffler.se/konferens/moduli-curves-stockholm>
- 16/05/2022 "Invariants in Algebraic Geometry", Institut de Mathématiques de Bourgogne, Dijon (France).
- 20/05/2022 <https://school-iag2020.math.cnrs.fr/>
- 21/02/2022 "Motives from 1 to 62", Università degli studi di Milano, Milano (Italy).
- 23/02/2022 <https://sites.google.com/view/motives-1-62/home>
- 20/12/2021 "Christmas in Rome 2021", Argiletum, Rome (Italy).
- 21/12/2021 <http://amosturchet.github.io/alggeo21.html>
- 18/10/2021 "Motives and Hodge theory", Mittag-Leffler Institute, Djursholm (Sweden).
- 22/10/2021 <https://sites.google.com/view/motives-hodge-theory/home>
- 06/05/2019 "School on Motives and Stacks", University of Essen, Essen (Germany).
- 10/05/2019 <https://motives-stacks-2019.esaga.net/>
- 03/06/2019 "Motives Today", CIRM, Trento (Italy).
- 07/06/2019 <https://cirm.fbk.eu/events/motives-today>
- 06/05/2019 "Recent progress in Moduli Theory", MSRI, Berkeley (California, USA).
- 10/05/2019 <https://www.msri.org/workshops/869>
- 08/04/2019 "Recent progress in Langlands program", MSRI, Berkeley (California, USA).
- 12/04/2019 <https://www.msri.org/workshops/855>
- 25/03/2019 "Derived Algebraic Geometry and its application", MSRI, Berkeley (California, USA).
- 29/03/2019 <https://www.msri.org/workshops/873>
- 20/12/2018 "Aeneas Conference: migrating algebraic geometry", University of Roma Tre, Rome(Italy).
- 21/12/2018 <http://ricerca.matfis.uniroma3.it/AeneasConference2018/December2018/>
- 04/06/2018 "A tale of Algebra and Geometry", University of Pisa, Pisa(Italy).
- 07/06/2018 <https://events.unibo.it/vistoliconference>
- 19/02/2018 "Workshop in Deformation Theory III", University Aldo Moro of Bari, Bari(Italy).
- 23/02/2018 <http://www.dm.uniba.it/~iacono/WDT/indexWDT.html>
- 19/12/2017 "Introduction to Algebraic Stacks", University of Angers, Angers (France).
- 21/12/2017 <https://www.lebesgue.fr/content/seminars-masterclass17>

21/12/2015 “Algebraic Geometry and Representation Theory”, Sapienza, Rome (Italy).
23/12/2015 <http://www1.mat.uniroma1.it/people/meazzini/conference/AGRT.html>

Teaching Experience

- 2021 Teaching assistant for the course "Istituzioni di Algebra" at the mathematics department of "Università di Pisa"
- 2020 Teaching assistant for the course "Istituzioni di Algebra" at the mathematics department of "Università di Pisa"
- 2014-2018 Former member of G.a.u.s.S.: "Giovani allenatori universitari studenti della Sapienza".
<https://www.mat.uniroma1.it/olimpiadi/gauss>

Languages

- Italian Native
- English Cambridge Certificate of Advanced English (CAE), C1 level

Grants, fellowships and Awards

- 2021 Winner of "Kovalevskaya grant for ICM2022"
<https://umi.dm.unibo.it/2021/11/26/risultati-kovalevskaya-grant-per-icm2022/>
- 2017-2018 ‘Percorso d’eccellenza’ for the ‘Laurea Magistrale’ in Mathematics.
- 31/07/2016 Eligible of the “ Bando di concorso a n. 8 Borse di studio per l’avviamento alla ricerca riservate a iscritti ai corsi di Laurea magistrale in matematica a.a. 2016-2017” released by INDAM
<https://www.altamatematica.it/sites/default/files/magistrale2016-17.pdf>
- 2015 - 2016 ‘Percorso d’eccellenza’ for the ‘Laurea Triennale’ in Mathematics.
- 09/05/2013 Participant in the finals of the ‘Olimpiadi della Matematica’ in Cesenatico and winner of a silver medal
- 25/04/2013 Participant in the finals of the ‘Olimpiadi di Fisica’ in Senigallia and winner of a bronze medal
- 19/04/2012 Participant in the finals of the ‘Olimpiadi di Fisica’ in Senigallia
- 03/05/2012 Participant in the finals of the ‘Olimpiadi della Matematica’ in Cesenatico