

Curriculum Vitæ

Ettore Aldrovandi

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Academic positions

2018– *Professor*, Department of Mathematics, Florida State University.

2007–2018 *Associate Professor*, Department of Mathematics, Florida State University.

2001–2007 *Assistant Professor*, Department of Mathematics, Florida State University.

2000–2001 *Visiting professor*, Department of Mathematics, Florida State University.

1998–2001 *Distinguished Scientist in Algebraic Geometry and Physics*, International School for Advanced Studies, Trieste, Italy (Six years appointment at the level of Assistant Professor, non tenure-track.)

Education and professional preparation

Postdoctoral, 1995–1997 Visiting Research Scholar, Department of Mathematics, SUNY at Stony Brook, Stony Brook, NY, USA.
Supervisors: Prof. L. Takhtajan and Prof. C.-H. Sah.

Postdoctoral, 1992–1994 Postdoc, Department of Mathematics, Aarhus Universitet, Århus, Denmark.
Supervisor: Prof. J. Dupont.

Graduate, 1992 Ph.D. in Mathematics, International School for Advanced Studies, Trieste, Italy.
Advisor: Prof. L. Bonora.

Graduate, 1990 M.Sc. in Mathematics, International School for Advanced Studies, Trieste, Italy.
Advisor: Prof. L. Bonora.

Undergraduate, 1986 B.Sc. in Physics, University of Rome I “La Sapienza,” Rome, Italy.

Recent seminar and conference talks

01/23/2018 *Cup products, the Heisenberg group, and codimension two algebraic cycles*. Geometry Seminar, International School for Advanced Studies (SISSA), Trieste, Italy.

11/11/2017 *Biextensions of stable modules and presentations of bimonoidal categories*. Invited talk, [Lloyd Roeling Topology Conference—“Lloyd Roeling Mathematics Conference at the University of Louisiana at Lafayette, 2017.”](#)

10/28/2017 *Biextensions, ring-like stacks, and their classification*. [Category Theory Octoberfest 2017](#), Carnegie Mellon University,.

4/21/2017 *Stacks and Homotopy Types: Intersections and Applications*. FSU Mathematics Department colloquium talk.

4/29/2016 *Cohomology of associative algebras, categorical rings, and their morphisms*. Dept. of Mathematical Sciences, West Point USMA.

- 11/18/2015 *Intersection theory and homotopy types with algebraic structure*. FSU Mathematics Department colloquium talk.
- 11/1/2015 *Stacks of categorical rings and their morphisms*. University of Ottawa. “Octoberfest 2015” conference on Category Theory.
- 7/2/2015 *Arithmetic aspects of Liouville*. International School for Advanced Studies (SISSA) Trieste. (Aspects of gauge and string theories: A conference in honour of the 70th birthday of Loriano Bonora.)
- 6/11/2015 *Nonabelian biextensions and bimonoidal functors*. Dept. of Mathematics, University of Maryland. Algebra and Number Theory Seminar.
- 5/16/2014 *Biextensions, biadditive morphisms, and categorical rings*, Université catholique de Louvain, Louvain-la-Neuve, Belgium. “Séminaire de théorie des Catégories” conference.
- 5/7/2014 *Biextensions and biadditive morphisms*, Department of Mathematics, Turin University.
- 4/10/2014 *Biextensions and biadditive morphisms*, International School for Advanced Studies (SISSA), Trieste.
- 3/31/2014 *Biextensions and biadditive morphisms*, Department of Mathematics, University of Milan.
- 7/8/2013 *Postnikov invariants and morphisms of monoidal and bimonoidal stacks*, International School for Advanced Studies (SISSA), Trieste.
- 06/24/2013 *Butterflies and morphisms of monoidal and bimonoidal stacks*, Department of Mathematics, University of Milan. Category Theory Seminar (part of the Aurelio Carboni Conference).

Doctoral Students

- Michael Niemcier
- Yaineli Valdez—PhD 2018
The τ -Type of K -Theory of Waldhausen categories as a Multifunctor.
- Gregory (Ivan) Dungan II—PhD 2014
 n -Butterflies: modeling weak morphisms of strict n -groups.
- A. Emin Tatar—PhD 2010
On Picard 2-stacks and length 3-complexes of abelian sheaves.

Relevant Publications

- [1] Ettore Aldrovandi, Ugo Bruzzo, and Vladimir Rubtsov. “Lie algebroid cohomology and Lie algebroid extensions”. In: *Journal of Algebra* 505 (2018), pp. 456–481. DOI: [10.1016/j.jalgebra.2018.03.018](https://doi.org/10.1016/j.jalgebra.2018.03.018). arXiv: [1711.05156](https://arxiv.org/abs/1711.05156) [math.RA].
- [2] Ettore Aldrovandi. “Biextensions, bimonoidal functors, multilinear functor calculus, and categorical rings”. In: *Theory and Applications of Categories* 32.27 (2017), pp. 889–969. arXiv: [1501.04664](https://arxiv.org/abs/1501.04664) [math.CT]. URL: <http://www.tac.mta.ca/tac/volumes/32/27/32-27abs.html>.
- [3] Ettore Aldrovandi and Ahmet Emin Tatar. “Notes on Weak Units of Picard 1- and 2-stacks”. In: *Mathematical Proceedings of the Cambridge Philosophical Society* (2016). DOI: [10.1017/S0305004116000931](https://doi.org/10.1017/S0305004116000931). arXiv: [1108.1922](https://arxiv.org/abs/1108.1922) [math.AG].
- [4] Ettore Aldrovandi and Niranjan Ramachandran. “Cup products, the Heisenberg group, and codimension two algebraic cycles”. In: *Documenta Mathematica* 21 (2016), pp. 1313–1344. arXiv: [1510.01825](https://arxiv.org/abs/1510.01825) [math.AG]. URL: <http://www.math.uiuc.edu/documenta/vol-21/35.html>.
- [5] Ettore Aldrovandi. “Stacks of Ann-Categories and their morphisms”. In: *Theory and Applications of Categories* 30.39 (Sept. 21, 2015), pp. 1256–1286. arXiv: [1501.07592](https://arxiv.org/abs/1501.07592) [math.CT]. URL: <http://www.tac.mta.ca/tac/volumes/30/39/30-39abs.html>.

- [6] Ettore Aldrovandi and Behrang Noohi. “Butterflies II: Torsors for 2-group stacks”. In: *Advances in Mathematics* 225 (2010), pp. 922–976. DOI: [doi:10.1016/j.aim.2010.03.011](https://doi.org/10.1016/j.aim.2010.03.011). arXiv: [0909.3350](https://arxiv.org/abs/0909.3350) [math.AT].
- [7] Ettore Aldrovandi and Behrang Noohi. “Butterflies I: Morphisms of 2-group stacks”. In: *Advances in Mathematics* 221 (2009), pp. 687–773. DOI: [doi:10.1016/j.aim.2008.12.014](https://doi.org/10.1016/j.aim.2008.12.014). arXiv: [0808.3627](https://arxiv.org/abs/0808.3627) [math.CT].
- [8] Ettore Aldrovandi. “2-Gerbes bound by complexes of gr-stacks, and cohomology”. In: *Journal of Pure and Applied Algebra* 212.5 (2008), pp. 994–1038. DOI: [10.1016/j.jpaa.2007.07.020](https://doi.org/10.1016/j.jpaa.2007.07.020). arXiv: [math.CT/0512453](https://arxiv.org/abs/math.CT/0512453).
- [9] Ettore Aldrovandi. “Hermitian-holomorphic (2)-gerbes and tame symbols”. In: *Journal of Pure and Applied Algebra* 200 (2005), pp. 97–135. arXiv: [math.CT/0310027](https://arxiv.org/abs/math.CT/0310027).
- [10] Ettore Aldrovandi. “Hermitian-holomorphic Deligne cohomology, Deligne pairing for singular metrics, and hyperbolic metrics”. In: *International Mathematics Research Notices* 17 (2005), pp. 1015–1046. arXiv: [math.AG/0408118](https://arxiv.org/abs/math.AG/0408118).
- [11] Ettore Aldrovandi. “On hermitian-holomorphic classes related to uniformization, the dilogarithm and the Liouville Action”. In: *Communications in Mathematical Physics* 251 (2004), pp. 27–64. arXiv: [math.CV/0211055](https://arxiv.org/abs/math.CV/0211055).