# 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

10/29/2022 *Cubes in Picard groupoids, MacLane's Q-construction and determinants,* Category Theory "Octoberfest" Meeting. Ottawa University (online).

01/29/2021 *New invariants for algebraic cycles,* Colloquium Talk, Department of Mathematics, University of Toledo (OH).

11/11/2020 Workshop on categorical groups. Leading lecture. AMS Fall Southeastern Meeting, Oct 10–11, 2020.

10/10/2020 *Categorical groups, their morphisms, and higher algebraic structures.* AMS Fall Southeastern Meeting, Oct 10–11, 2020.

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,.

## Doctoral Students

- Arash Karimi—Pre-candidate
- Milind Gunjal—Candidate
- Michael Niemeier—PhD 2020
  Dissertation: *Central extensions of simplicial groups and presheaves of simplicial groups.*
- Yaineli Valdez—PhD 2018
  Dissertation: *The 1-Type of K-Theory of Waldhausen categories as a Multifunctor.*
- Gregory (Ivan) Dungan II—PhD 2014
  Dissertation: *n-Butterflies: modeling weak morphisms of strict n-groups.*
- A. Emin Tatar—PhD 2010
  Dissertation: *On Picard 2-stacks and length 3-complexes of abelian sheaves.*

## Relevant Publications


[1] Ettore Aldrovandi and Cynthia Lester. "On Multi- Determinant functors for Triangulated Categories". In: *Theory and Applications of Categories* (). Accepted. arXiv: 2305.02293 [math.CT].

[2] Ettore Aldrovandi and Niranjan Ramachandran. "Fiber integration of gerbes and Deligne line bundles". In: *Homology, Homotopy and Applications* 25 (2023), pp. 21–51. DOI: 10.4310/HHA.2023.v25.n1.a2. arXiv: 2101.00044 [math.AG].

[3] 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. arXiv: 1711.05156 [math.RA].

[4] 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 [math.CT]. URL: http://www.tac.mta.ca/tac/volumes/32/27/32-27abs.html.

[5] 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. arXiv: 1108.1922 [math.AG].

[6] 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 [math.AG]. URL: http://www.math.uiuc.edu/documenta/vol-21/35.html.

[7] 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 [math.CT]. URL: http://www.tac.mta.ca/tac/volumes/30/39/30-39abs.html.

[8] 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. arXiv: 0909.3350 [math.AT].

[9] 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. arXiv: 0808.3627 [math.CT].

[10] 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. arXiv: math.CT/0512453.

[11] 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.

[12] 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.

[13] 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.