

Curriculum Vitae

Filiación

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Reconocidos 5 tramos de docencia (2025).

Reconocidos 4 tramos de investigación (2024).

Intereses

Geometría algebraica. Variedades especiales. Fibrados vectoriales. Variedades homogéneas. Educación matemática.

Artículos

Edoardo Ballico and Roberto Muñoz. Projective varieties swept out by rational normal curves. *Comm. Algebra*, 36(11):4257–4262, 2008. ISSN 0092-7872,1532-4125. doi: 10.1080/00927870802177366. URL <https://doi.org/10.1080/00927870802177366>.

Luis Giraldo, Angelo Felice Lopez, and Roberto Muñoz. On the projective normality of Enriques surfaces. *Math. Ann.*, 324(1):135–158, 2002. ISSN 0025-5831,1432-1807. doi: 10.1007/s00208-002-0333-5. URL <https://doi.org/10.1007/s00208-002-0333-5>. With an appendix by Lopez and Alessandro Verra.

Luis Giraldo, Angelo Felice Lopez, and Roberto Muñoz. On the existence of Enriques-Fano threefolds of index greater than one. *J. Algebraic Geom.*, 13(1):143–166, 2004. ISSN 1056-3911,1534-7486. doi: 10.1090/S1056-3911-03-00342-4. URL <https://doi.org/10.1090/S1056-3911-03-00342-4>.

Andreas Leopold Knutsen, Angelo Felice Lopez, and Roberto Muñoz. On the extendability of projective surfaces and a genus bound for Enriques-Fano threefolds. *J. Differential Geom.*, 88(3):485–518, 2011. ISSN 0022-040X,1945-743X. URL <http://projecteuclid.org/euclid.jdg/1321366357>.

- Andreas Leopold Knutsen, Angelo Felice Lopez, and Roberto Muñoz. On the proof of the genus bound for Enriques-Fano threefolds. *J. Ramanujan Math. Soc.*, 27(3):375–395, 2012. ISSN 0970-1249,2320-3110.
- A. Lanteri and R. Muñoz. Discriminant loci of ample and spanned line bundles. *J. Pure Appl. Algebra*, 212(4):808–831, 2008. ISSN 0022-4049,1873-1376. doi: 10.1016/j.jpaa.2007.07.007. URL <https://doi.org/10.1016/j.jpaa.2007.07.007>.
- Antonio Lanteri and Roberto Muñoz. On the discriminant of spanned line bundles. In *Projective varieties with unexpected properties*, pages 337–347. Walter de Gruyter, Berlin, 2005. ISBN 978-3-11-018160-9; 3-11-018160-6.
- Antonio Lanteri and Roberto Muñoz. Varieties with small discriminant variety. *Trans. Amer. Math. Soc.*, 358(12):5565–5585, 2006. ISSN 0002-9947,1088-6850. doi: 10.1090/S0002-9947-06-03915-8. URL <https://doi.org/10.1090/S0002-9947-06-03915-8>.
- Antonio Lanteri and Roberto Muñoz. Low dimensional discriminant loci and scrolls. *Indiana Univ. Math. J.*, 58(5):2205–2225, 2009. ISSN 0022-2518,1943-5258. doi: 10.1512/iumj.2009.58.3660. URL <https://doi.org/10.1512/iumj.2009.58.3660>.
- Angelo Felice Lopez and Roberto Muñoz. On the classification of non-big Ulrich vector bundles on surfaces and threefolds. *Internat. J. Math.*, 32(14): Paper No. 2150111, 18, 2021. ISSN 0129-167X,1793-6519. doi: 10.1142/S0129167X21501111. URL <https://doi.org/10.1142/S0129167X21501111>.
- Angelo Felice Lopez, Roberto Muñoz, and José Carlos Sierra. On the extendability of elliptic surfaces of rank two and higher. *Ann. Inst. Fourier (Grenoble)*, 59(1):311–346, 2009. ISSN 0373-0956,1777-5310. doi: 10.5802/aif.2432. URL <https://doi.org/10.5802/aif.2432>.
- Angelo Felice Lopez, Roberto Muñoz, and José Carlos Sierra. Non-big Ulrich bundles: the classification on quadrics and the case of small numerical dimension. *Manuscripta Math.*, 174(1-2):517–533, 2024. ISSN 0025-2611,1432-1785. doi: 10.1007/s00229-023-01505-3. URL <https://doi.org/10.1007/s00229-023-01505-3>.
- Angelo Felice Lopez, Roberto Muñoz, and José Carlos Sierra. On the classification of non-big Ulrich vector bundles on fourfolds. *Ann. Sc. Norm. Super. Pisa Cl. Sci. (5)*, 26(2):707–755, 2025. ISSN 0391-173X,2036-2145. doi: 10.2422/2036-2145.202208_024. URL https://doi.org/10.2422/2036-2145.202208_024.
- Roberto Muñoz. Varieties with low-dimensional dual variety. *Manuscripta Math.*, 94(4):427–435, 1997. ISSN 0025-2611,1432-1785. doi: 10.1007/BF02677864. URL <https://doi.org/10.1007/BF02677864>.

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- Roberto Muñoz. Varieties with degenerate dual variety. *Forum Math.*, 13(6):757–779, 2001. ISSN 0933-7741,1435-5337. doi: 10.1515/form.2001.033. URL <https://doi.org/10.1515/form.2001.033>.
- Roberto Muñoz and Álvaro Nolla. Discriminants of toric varieties. *Comm. Algebra*, 49(12):5109–5128, 2021. ISSN 0092-7872,1532-4125. doi: 10.1080/00927872.2021.1937639. URL <https://doi.org/10.1080/00927872.2021.1937639>.
- Roberto Muñoz and Luis E. Solá Conde. Varieties swept out by Grassmannians of lines. In *Interactions of classical and numerical algebraic geometry*, volume 496 of *Contemp. Math.*, pages 303–315. Amer. Math. Soc., Providence, RI, 2009. ISBN 978-0-8218-4746-6. doi: 10.1090/conm/496/09730. URL <https://doi.org/10.1090/conm/496/09730>.
- Roberto Muñoz, José Carlos Sierra, and Luis E. Solá Conde. Tangential projections and secant defective varieties. *Bull. Lond. Math. Soc.*, 39(6):949–961, 2007. ISSN 0024-6093,1469-2120. doi: 10.1112/blms/bdm098. URL <https://doi.org/10.1112/blms/bdm098>.
- Roberto Muñoz, Gianluca Occhetta, and Luis E. Solá Conde. An extension of Fujita’s non-extendability theorem for Grassmannians. *Math. Ann.*, 348(3):577–592, 2010. ISSN 0025-5831,1432-1807. doi: 10.1007/s00208-010-0486-6. URL <https://doi.org/10.1007/s00208-010-0486-6>.
- Roberto Muñoz, Gianluca Occhetta, and Luis E. Solá Conde. Uniform vector bundles on Fano manifolds and applications. *J. Reine Angew. Math.*, 664:141–162, 2012a. ISSN 0075-4102,1435-5345. doi: 10.1515/crelle.2011.103. URL <https://doi.org/10.1515/crelle.2011.103>.
- Roberto Muñoz, Gianluca Occhetta, and Luis E. Solá Conde. Rank two Fano bundles on $G(1, 4)$. *J. Pure Appl. Algebra*, 216(10):2269–2273, 2012b. ISSN 0022-4049,1873-1376. doi: 10.1016/j.jpaa.2012.03.006. URL <https://doi.org/10.1016/j.jpaa.2012.03.006>.
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- Roberto Muñoz, Gianluca Occhetta, Luis E. Solá Conde, and Kiwamu Watanabe. Rational curves, Dynkin diagrams and Fano manifolds with nef tangent bundle. *Math. Ann.*, 361(3-4):583–609, 2015b. ISSN 0025-5831,1432-1807. doi: 10.1007/s00208-014-1083-x. URL <https://doi.org/10.1007/s00208-014-1083-x>.
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