

CURRICULUM-VITAE

Alexis Kouvidakis

Date of birth : March 12, 1963
Place of birth : Heraklion – Crete
Citizenship: Greek
Marital status : Married with two kids
Current position : Professor
Department of Mathematics and Applied Mathematics, Univ. of Crete
Research area: Algebraic Geometry
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Education

1980-84 : Undergraduate studies, University of Crete, Department of Mathematics
1984-85 : Graduate studies, University of Crete, Department of Mathematics
1985-88 : Graduate studies, Brown University (USA), Department of Mathematics
1988-90 : Graduate studies, Harvard University (USA), Department of Mathematics

Degrees

Diploma in Mathematics : University of Crete (1984)
M.Sc. in Mathematics : Brown University (1988)
Ph.D. in Mathematics : Harvard University (1990)
Thesis advisor : Joseph Harris,
Title: Divisors on some moduli spaces

Positions

1990-1993: Lecturer, Univ. of Pennsylvania (USA), Department of Mathematics
1995-1996: Visiting Professor, Univ. of Crete, Department of Mathematics
1996-2002: Assistant Professor, Uni. of Crete, Department of Mathematics
2002-2013: Associate Professor, Univ. of Crete, Department of Mathematics
2013-2105: Associate Professor, Univ. of Crete, Department of Math. and Applied Math.
2015-today: Professor, Univ. of Crete, Dept. of Mathematics and Applied Mathematics

Teaching experience

1984-85: exercise section teaching , University of Crete
1986-88: exercise section teaching, course teaching, Brown University
1988-90: exercise grading, course teaching, Harvard University
1990-93: course teaching, Univ. of Pennsylvania
1995-today: course teaching (undergraduate and graduate), University of Crete

At the University of Crete I have taught the following courses :

Undergraduate: Calculus I & II, Introduction to Linear Algebra, Algebra, Ring Theory and Modules, Group Theory, Differential Geometry, Field Theory, Linear Algebra II & III, Algebraic Geometry, Mathematics I & II for the Chemistry Department, General Mathematics I & II for the Material Sciences Department.

Graduate: Algebra I (4 semesters), Algebra II (3 semesters), Introduction to Algebraic Geometry (1 semester). I have also offered various graduate study courses, such as: Topics in Geometry – Riemann surfaces and Algebraic curves, Topics in Geometry – Complex varieties (jointly with K. Athanassopoulos), Topics in Geometry – Analytic functions (jointly with I. Platis).

Thesis supervision

E. Kritsotakis' undergraduate Thesis (March 1998)
E. Tzanakis' M.Sc. Thesis (October 2002)
M. Lada's M.Sc. Thesis (January 2005)
G. Kydonakis' M. Sc. Thesis (June 2011)
P. Koutsogiannakopoulou's M. Sc. Thesis (June 2014)

Departmental service

Member of the following committees: graduate students selection, visiting Professor's selection, Euroconferences, undergraduate studies, coordinator of the Library committee and of the department finance committee; Director of the Geometry-Algebra sector; Associate chair of the Mathematics Department.

Talks – Research visits

I was invited speaker at the following conferences – workshops:

Geometry and Arithmetic, Sept. 20-24, 2010, Schiermonnikoog, Holland.

Workshop on Algebraic Geometry, Sept. 7-9, 2011, Hosei University, Tokyo.

Geometry and Topology of Moduli, Oct. 10-12, 2012, Humboldt Universität, Berlin.

I have visited the following universities: Univ. Rome II-Tor Vergata (Oct. 2008 - Febr. 2009), University of Amsterdam (many short visits in the last years), The University of Tokyo (Sept 3 -15. 2011), umboldt Univ.(February - June. 2016), Univ. Roma 3 (June 2016).

Referee for the journals: *Compositio Math.*, *Ann. Sc. Ec. Norm. Sup.*, *I.M.R.N.*, *Documenta Mathematica*, *Michigan Math. J.*, *Geom. Dedicata*.

Publications

1. The Picard group of the universal Picard varieties over the moduli space of curves.
[*Journal of Differential Geometry* 34 (1991), 839-850].
2. Divisors on symmetric products of curves.
[*Transactions of the A.M.S.* 337 (1993), 117-128].
3. Ample divisors on the moduli space of 0-genus n -pointed stable curves.
[*Communications in Algebra* 21 (1993), 3165-3181].
4. On the moduli space of vector bundles on the fibers of the universal curve.
[*Journal of Differential Geometry* 37 (1993), 505-522].
5. Picard groups of Hilbert schemes for curves.
[*Journal of Algebraic Geometry* 3 (1994), 671-684].
6. The automorphism group of the moduli space of semi stable vector bundles.
[with Tony Pantev - *Mathematische Annalen* 302 (1995), 225-268].
7. On the symmetric product of a curve with general moduli.
[with Ciro Ciliberto - *Geometriae Dedicata* 78 (1999), 327-343].
8. Theta line bundles and the determinant of the Hodge bundle.
[*Transactions of the A.M.S.* 352 (2000), 2553-2568].
9. On some results of Morita and their application to questions of ampleness.
[*Mathematische Zeitschrift* 241 (2002), 17-33].
10. Cycle relations on Jacobian varieties.
[with Gerard van der Geer and with an appendix by Don Zagier - *Compositio Math.* 143 (2007), 900-908].
11. A note on Fano surfaces of nodal cubic threefolds.
[with Gerard van der Geer - *Advanced Studies in Pure Mathematics* 58 (2010), 27-45].
12. The rank-one limit of the Fourier-Mukai transform.
[with Gerard van der Geer, *Documenta Mathematica* 15 (2010), 747-763].
13. The Hodge bundle on Hurwitz spaces.
[with Gerard van der Geer, *Pure and Applied Mathematics Quarterly* 7 (2011) – special issue in memory of Eckart Viehweg, 1297-1307].
14. Rational correspondences between moduli spaces of curves defined by Hurwitz spaces.
[with Gerard van der Geer, *Journal of Pure and Applied Algebra* 216 (2012), 876-893].
15. The class of a Hurwitz divisor on the moduli of curves of even genus.
[with Gerard van der Geer, *Asian Journal of Mathematics* 16 (2012), 787-806].15
16. Divisors on Hurwitz spaces: An appendix to "The cycle classes of divisorial Maroni loci".
[with Gerard van der Geer, *Moscow Math. Journal*, 16 (2016), 767-774].
17. The cycle classes of divisorial Maroni loci.
[with Gerard van der Geer, – 34 pages, *International Mathematics Research Notices* (2017), 3463-3509].
18. Measures of irrationality of the Fano surface of a cubic threefold.
[with Frank Gounelas - *arXiv:1707.00853*, 14 pp].
19. Effective cycles on the symmetric product of a curve, I: The diagonal cone.
[with Francesco Bastianelli, Angelo Felice Lopez and Filippo Viviani - *arXiv:1711:07722*, 42pp].

20. Effective cycles on the symmetric product of a curve, II: The Abel-Jacobi faces.
[with Francesco Bastianelli, Angelo Felice Lopez and Filippo Viviani - *arXiv:1711.07725*, 26pp].