

Curriculum Vitae

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1. Date of Birth: November 7, 1962.
2. Place of Birth: Chalkis, Greece.
3. Married, one son.

1. EMPLOYMENT

- University of Ioannina, Greece: Associate Professor (2006 - present).
- University of the Aegean, Greece: Associate Professor (2003 - 2006).
- University of the Aegean, Greece: Visiting Assistant and Associate Professor (2001 - 2002).
- University of the Aegean, Greece: Visiting Lecturer (2000 - 2001).
- University of Bielefeld, Germany: Research Fellow in the program “Orbits Crystals and Representation Theory”, Germany. (July-October 1998 and January-March 1999).
- Instituto de Matemáticas, UNAM, Mexico: Visiting Assistant Professor (1997-1998).

2. EDUCATION

- 1991–1995: Ph.D. student in the Department of Mathematics, University of Ioannina, Greece.
Advisor: Nikolaos Marmaridis.
Thesis: “Stable Categories of Abelian Categories”, (in Greek), Ioannina (1995), 290 pages.
- BSc. in Mathematics (June 1987), University of Ioannina, Greece.

3. RESEARCH INTERESTS

- Representation Theory of Artin Algebras. In particular: Tilting Theory, Auslander-Reiten Theory.
- Ring and Module Theory.
- Homological Algebra. In particular: Purity, Relative Homology, Triangulated and Derived Categories.
- Homotopical Algebra. In particular: Quillen’s Closed Model Categories and Abstract Homotopy Theory.
- Stable Homotopy Theory.
- Category Theory. In particular: Abelian Categories, Torsion Theories, Localization.
- Non-Commutative Algebraic Geometry.
- Homological/Homotopical Aspects of Functional Analysis.

4. PAPERS AND PREPRINTS

4.1. Published Papers.

- [1] A. BELIGIANNIS AND N. MARMARIDIS: “*On Left Derived Categories of a Stable Category*”, Proc. ICRA 6, Carlton-Ottawa Math. Lect. Note Series, No. **14** (1992), p. BM1-BM31.
- [2] A. BELIGIANNIS AND N. MARMARIDIS: “*Left Triangulated Categories Arising from Contravariantly Finite Subcategories*”, Communications in Algebra **22** (1994), 5021–5036.
- [3] A. BELIGIANNIS AND N. MARMARIDIS: “*Grothendieck Groups Arising from Contravariantly Finite Subcategories*”, Communications in Algebra **24** (1996), 4415–4438.
- [4] A. BELIGIANNIS, N. MARMARIDIS AND I. ASSEM: “*Right Triangulated Categories with Right Semi-Equivalences*”, Algebras and Modules II, (Geiranger 1996), CMS Conf. Proc. **24**, Amer. Math. Soc., Providence RI, (1998), 17–37.
- [5] A. BELIGIANNIS: “*Relative Homological Algebra and Purity in Triangulated Categories*”, Journal of Algebra **227** (2000), 268–361.
- [6] A. BELIGIANNIS: “*Cleft Extensions of Abelian Categories and Applications to Ring Theory*”, Communications in Algebra **28** (2000), 4503–4546.
- [7] A. BELIGIANNIS: “*On the Relative Homology of Cleft Extensions of Rings and Abelian Categories*”, Journal of Pure and Applied Algebra **150** (2000), 237–299.
- [8] A. BELIGIANNIS: “*The Homological Theory of Contravariantly Finite Subcategories: Gorenstein Categories, Auslander-Buchweitz Contexts and (Co)Stabilization*”, Communications in Algebra **28** (2000), 4547–4596.
- [9] A. BELIGIANNIS: “*On the Freyd Categories of an Additive Category*”, Homology Homotopy and Applications **2** (No.11) (2000), 147–185.
- [10] A. BELIGIANNIS: “*Homotopy Theory of Modules and Gorenstein Rings*”, Mathematica Scandinavica **89** (2001), 5–45.
- [11] A. BELIGIANNIS: “*Stable Equivalences and Stable Grothendieck Groups*”, Communications in Algebra, **30**(No. 1) (2002), 205–237.
- [12] A. BELIGIANNIS: “*Purity and Almost Split Morphisms in Abstract Homotopy Categories: A Unified Approach via Brown Representability*”, Algebras and Representation Theory, **5** (2002), 483–525.
- [13] A. BELIGIANNIS AND H. KRAUSE: “*Realizing Maps Between Modules over Tate Cohomology Rings*”, Contributions to Algebra and Geometry, **44**, No. 2 (2003), pp. 451–466.
- [14] A. BELIGIANNIS: “*Auslander-Reiten Triangles, Ziegler Spectra and Gorenstein Rings*”, K-Theory, **32** (2004), 1–82.
- [15] A. BELIGIANNIS: “*Cohen-Macaulay Modules, (Co)Torsion Pairs and Virtually Gorenstein Algebras*”, Journal of Algebra, Vol. **288**, No.1, (2005), 137–211.
- [16] A. BELIGIANNIS AND I. REITEN: “*Homological and Homotopical Aspects of Torsion Theories*”, Memoirs of the American Mathematical Society, Vol. 188 (2007), 207 pp.
- [17] A. BELIGIANNIS AND H. KRAUSE: “*Thick Subcategories and Virtually Gorenstein Algebras*”, preprint, University of Ioannina, Greece, (2006), 11 pages. To appear in Illinois Journal of Mathematics.

4.2. Various Publications - Reports.

- [17] A. BELIGIANNIS: “*Cohen-Macaulay Modules and Virtually Gorenstein Algebras*”, Oberwolfach Reports, Volume **2**, Issue 1, (2005), 340–342.

- [18] A. BELIGIANNIS: “*A Note on Virtually Gorenstein Algebras*”, to appear in Oberwolfach Reports.

4.3. Preprints and Papers in progress.

- [19] A. BELIGIANNIS: “*Tilting Theory in Abelian Categories and Related Homotopical Structures*”, Preprint in preparation, University of Ioannina, (2006), 80 pages.
- [20] A. BELIGIANNIS: “*Relative Homology, Tilting Objects and Freyd’s Generating Hypothesis*”. Preprint in preparation.
- [21] A. BELIGIANNIS: “*Grothendieck Topologies and Sheaf Theory on the Ziegler Spectrum*”.
- [22] A. BELIGIANNIS: “*The Auslander Dimension of an Abelian Category*”.
- [23] A. BELIGIANNIS: “*Cleft Extensions and Closed Model Structures*”.

5. GRANTS

- 1991–1995: Supported by a Grant from the National Grant Foundation of Greece.

6. PARTICIPATION IN MEETINGS

I have participated and lectured (sometimes as an invited speaker) in various Conferences and Seminars, in the following Universities and Institutions:

- University of Sherbrooke, Sherbrooke, Canada.
- Instituto de Matemáticas, UNAM, Mexico.
- NTNU, Trondheim, and Oslo Academy of Science and Letters, Norway.
- University of Bielefeld, Germany.
- Normal Beijing University, China.
- Università dell’ Insubria, Varese, Italy.
- Oberwolfach, Germany.
- Various Universities in Greece.

7. RECENT LECTURES

- *Tilting Theory in Abelian Categories*, Representation Theory of Algebras, ICTP, Trieste, January 2006.
- *Stable Categories, Cotorsion Pairs and Virtually Gorenstein Algebras*, New Trends in Infinite-Dimensional Tilting Theory, Varese, April 2005.
- *Cohen-Macaulay Modules and Virtually Gorenstein Algebras*, Representation Theory of Algebras, Oberwolfach, Germany, 6-12 February 2005.
- *Auslander-Reiten Triangles and the Ziegler Spectrum*, Conference for Idun, Trondheim, Norway, 1-2 March 2002.
- *Homologically Finite Subcategories, Torsion Theories and Closed Model Structures*, Homological, Combinatorial and Geometric Aspects of Representation Theory, Oslo, Norway, 21-24 September 2001.
- *Torsion Theories in Pretriangulated Categories*, NTNU, Trondheim, Norway, March 2001.
- *Auslander-Reiten Triangles*, NTNU, Trondheim, Norway, November 2000.
- *Purity and Almost Split Morphisms*, International Conference on Representations of Algebras: ICRA 9, Beijing, China, 21 August - 1 September 2000.
- *Homological Algebra in Triangulated Categories*, Euroconference: Homological Invariants, University of Ioannina, 16-21 March 1999.

- *Gorenstein Categories*, International Conference on Representations of Algebras: ICRA 8 $\frac{1}{2}$, Bielefeld, Germany, 31 August - 5 September 1998.

8. PROFESSIONAL SERVICE

- Reviewer for Math. Reviews.
- Referee for various journals, including: Advances of Mathematics, Journal of Algebra, Journal of Pure and Applied Algebra, Transactions of AMS, K-Theory, Journals of L.M.S., Colloquium Math., Algebras and Representation Theory.