

CURRICULUM VITAE

Helena Isabel Ferreira Soares Correia Tavares

PERSONAL INFORMATION

Born: May 6th 1975, Lisbon, Portugal.

Citizenship: Portuguese.

ADDRESSES:

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EDUCATION

- April 2008: Ph.D., Universitat de Barcelona, Spain, supervisor Professor Rosa M. Miró-Roig.
- September 2003: Master in Geometry and Topology, Instituto Superior Técnico, Universidade Técnica de Lisboa, Portugal. Dissertation supervised by Professor Pedro Ferreira dos Santos.
- July 1999: Mathematics degree, Faculdade de Ciências, Universidade de Lisboa, Portugal. Academic year of 1998/1999: Erasmus/Sócrates programme at the University of Leeds, England.

ACADEMIC POSITIONS

- Since April 2008 - Assistant Professor at Instituto Superior de Ciências do Trabalho e da Empresa (ISCTE).
- September 2003 - April 2008: lecturer at ISCTE.
- September 2000 - September 2003: teaching-assistant at ISCTE.
- September 1999 - July 2000: "ajudante" at Faculdade de Ciências e Tecnologia of Universidade Nova.

TEACHING EXPERIENCE

- ISCTE - IUL

Vector Calculus (Computer Science and Management degree), Spring 2008/2009.

Optimization (Management degree), Spring 2008/2009.

Linear Algebra, Analytic Geometry and Vector Calculus (Computer Science Engineering degree), Fall 2008/2009.

Linear Algebra, Analytic Geometry and Vector Calculus (Telecommunications and Computer Science Engineering degree), Fall 2000/2001 to 2002/2003.

Calculus II (Telecommunications and Computer Science Engineering degree), Spring 2002/2003.

Introduction to Mathematics (Telecommunications and Computer Science Engineering degree), Fall 2001/2002.

- Facultat de Matemàtiques de la Universitat de Barcelona

Projective Geometry (Mathematics degree), Fall 2006/2007.

- Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa

Vector Calculus I (Computer Science Engineering degree), Fall and Spring 1999/2000.

SCIENTIFIC AREA AND RESEARCH

Scientific area of Algebraic Geometry: vector bundles on algebraic varieties (stable, simple and exceptional vector bundles, cohomological characterisation); Brill-Noether theory, derived categories, helix theory.

Researcher of UNIDE IBS-ISCTE Business School.

Reviewer for the Mathematical Reviews of the American Mathematical Society.

GRANTS/AWARDS

- ISCTE Business School Scientific Merit Awards, 2009.

- ISCTE Business School Scientific Merit Awards, 2008.

- Ph.D. grant SFRH/BD/16589/2004, Fundação para a Ciência e Tecnologia, 2004-2008.

SCIENTIFIC PUBLICATIONS

1. Miró-Roig, R. M., Soares, H., *Cohomological characterisation of Steiner bundles*, Forum Math. **21** (2009), no. 5, 871–891.
2. Miró-Roig, R. M., Soares, H., *Stability of exceptional bundles on complete intersection 3-folds*, Proc. Amer. Math. Soc. **136** (2008), 3751 - 3757.
3. Soares, H., *Steiner Bundles on the hyperquadric Q_n , $n \geq 3$* , Comm. Algebra **35** (2007), no. 12 , 4116 - 4136.
4. Incensi, F., Soares, H., *On some positive embeddings of \mathbb{P}^d* , Matematiche (Catania), vol. LXI (2006), fasc. II, 371-383.

OTHER PUBLICATIONS

1. *Steiner Vector Bundles on Algebraic Varieties*, Ph.D. thesis, Universitat de Barcelona, 2008.
2. *Cohomologia Racional do Espaço de Ciclos Algébricos de grau 2*, master's thesis, Instituto Superior Técnico, Universidade Técnica de Lisboa, 2003.

INVITED SEMINARS AND TALKS

- *Exceptional bundles and stability*, Geometry and Topology Seminar, Centro de Matemática da Universidade do Porto, May 2009.
- *Stability of exceptional bundles on complete intersection 3-folds*, Tarde SPM/ CIM em Geometria Algébrica, March 2009.
- *Steiner bundles on algebraic varieties*, Algebra and Combinatorics Seminar, CMUC, Universidade de Coimbra, January 2009.
- *On the stability of some exceptional bundles*, Geometria em Lisboa Seminar, IST, Universidade Técnica de Lisboa, October 2008.

- *On the stability of some exceptional bundles*, Algebraic Geometry seminar of Universitat de Barcelona/Universitat Politècnica de Barcelona, Facultat de Matemàtiques, Universitat de Barcelona, February 2008.
- *Stability of exceptional bundles on complete intersection 3-folds*, Barcelona-Genova Workshop on Commutative Algebra and Applications, Universitat de Barcelona, July 2007.

OTHER SEMINARS AND TALKS

- *Stability of exceptional bundles on complete intersection 3-folds*, GAeL XV, Sabanci Üniversitesi, Istanbul, June 2007.
- *Tilting Theory for Quillen equivalences*, Topology Seminar of Facultat de Matemàtiques, Universitat de Barcelona, 2006.
- *Algunas computaciones en cobordismo algebraico*, Topology Seminar of Facultat de Matemàtiques, Universitat de Barcelona, 2005.

RESEARCH PROJECTS

- PTDC/MAT/099275/2008, *Geometria Algébrica*, Fundação para a Ciência e a Tecnologia.
- MTM2007-61104, *Espacios de Moduli de fibrados vectoriales y esquemas de Hilbert*, Universidad de Barcelona, Proyecto de Investigación del Programa Nacional de Investigación 2004-2007, Programa Matemáticas, Ministerio de Educación y Ciencia de España.
- HI2006-0188, *Commutative Algebra and Applications*, Universidad de Barcelona, Acción Integrada Hispano-Italiana 2007-2008, Ministerio de Educación y Ciencia de España.

ORGANIZATION OF INTERNATIONAL SCIENTIFIC MEETINGS

Local co-organiser of *VBAC 2010, Vector Bundles on Algebraic Curves*, Lisbon, June 14–18, 2010.