

Curriculum Vitae
Antonio Díaz Ramos

Nationality: Spanish.
Birth: 26/01/1976; Madrid (Spain).
Languages: Spanish and English.

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Academic studies **Ph.D. in Mathematics**, Universidad de Málaga 2006.
Title of Thesis: "Homological algebra on graded posets".
Thesis Advisor: Antonio Viruel.

Degree in Mathematical Sciences, Universidad de Málaga 2001.

3 years in **Computer Science** at Universidad de Málaga 1994-1997.

Employment **Postdoc** position at the Department of Mathematical Sciences in University of Copenhagen, 2008-2010.

EPSRC Postdoc position at the Department of Mathematical Sciences in University of Aberdeen, 2006-2008.

Grants **F.P.U. Grant** granted by the Education, Culture and Sport Ministry for doctoral studies at the Algebra, Geometry and Topology Department, Universidad de Málaga, 2002-2006.

Marie Curie grant at the Marie Curie Training Site "Algebraic Topology and Mathematical Physics", LAGA, Université Paris 13, February-April 2005.

Collaboration Grant granted by the Education, Culture and Sport Ministry for last year studies at the Algebra, Geometry and Topology Department, Universidad de Málaga, 2000-2001.

Experience in computer science I have experience in **programming**, with a solid background due to my studies in Computer Science. In particular, I have experience programming **C/C++** and **assembly language**, and programming **microcontrollers**.

Also, I have developed **software** for **real-time** control of a network of audio-processing electronic **devices**.

Assistance to Congresses and Courses **Conference on Algebraic Topology, Group Theory and Representation Theory**, Isle of Skye, Scotland, June 9-15 2009.

Nordic Topology Meeting, NTNU, Trondheim, Norway, November 27 - 28 2008.

EMS Joint Mathematical Weekend, University of Copenhagen, February 29-March 2nd 2008.

LMS/EPSRC Short Course: Fusion Systems

Birmingham (U.K.), August 2007, School of Mathematics, University of Birmingham.

Barcelona Topology Workshop (BTW07)

Barcelona (Spain), June 2007, CRM, Universitat Autònoma de Barcelona.

CIMMA 2005 International Mediterranean Congress of Mathematics

Almeria (Spain), June 2005, Universidad de Almeria.

One-week workshop on topology and representation theory

Lausanne (Switzerland), April 2005, Ecole Polytechnique Federale de Lausanne (EPFL).

MidWest Topology Seminar CW-fest

Purdue University, West Lafayette (Indiana), United States, October 2004, Department of Mathematics, Purdue University.

XI Encuentro de Topología

Barcelona (Spain), March 2004, Departamento de Álgebra y Geometría, Universidad de Barcelona.

ATM03: Algebraic Topology in Málaga

Málaga (Spain), September 2003, Departamento de Álgebra, Geometría y Topología, Universidad de Málaga.

COCOA VIII International School on Computer Algebra and Conference on Computational Commutative Algebra

Cádiz (Spain), June 2003, Departamento de Matemáticas, Universidad de Cádiz, COCOA Group.

X Encuentro de Topología

Bilbao (Spain), May 2003, Departamento de Matemáticas, Universidad del País Vasco.

Conference 2002 Barcelona Conference on Algebraic Topology

Barcelona (Spain), July 2002, Centre de Recerca Matemàtica, Institut d'Estudis Catalans.

Conference Modern Homotopy

Lille (France), May 2002, Laboratoire A.G.A.T., Université des Sciences et Technologies de Lille.

School Characteristic Classes in Geometry and Topology

Lens (France), May 2002, Laboratoire de Mathématiques de Lens, Université d'Artois – Faculté Jean Perrin.

IX Encuentro de Topología

Jaca (Spain), May 2002, Departamento de Matemáticas, Universidad de Zaragoza.

Conference HAL 9000: realidades y utopías de la inteligencia artificial

Valencia (Spain), October 2001, Universidad Internacional Menéndez Pelayo.

Conference Localizations and Operads, Learning About

Málaga (Spain), November 2000, Departamento de Álgebra, Geometría y Topología, Universidad de Málaga.

Talks

Topology and Geometry Seminar, Department of Mathematical Sciences, University of Aberdeen, November 2009, Aberdeen, Scotland, U.K.
A family of acyclic functors.

Seminario de Geometría y Topología, Departamento de Álgebra, Geometría y Topología, November 2009, Málaga, Spain.
El anillo de Burnside de un sistema de fusión.

Topology Seminar, Department of Mathematical Sciences, University of Copenhagen, September 2009, Copenhagen, Denmark.
The Burnside ring of fusion systems.

Fusion days, Laboratoire Amiénois de Mathématiques Fondamentales et Appliquées, Université de Picardie, September 2009, Amiens, France.
The Burnside ring of fusion systems.

Reading Seminar, Department of Mathematical Sciences, University of Copenhagen, January 2009, Copenhagen, Denmark.
Symmetric spectra and Topological Hochschild Homology.

Reading Seminar, Department of Mathematical Sciences, University of Copenhagen, October 2008, Copenhagen, Denmark.
Survey on model categories.

Reading Seminar, Department of Mathematical Sciences, University of Copenhagen, September 2008, Copenhagen, Denmark.
Spectra and generalized cohomology theories.

Topology Seminar, Department of Mathematical Sciences, University of Copenhagen, September 2008, Copenhagen, Denmark.
A family of acyclic functors.

EMS Joint Mathematical Weekend, Department of Mathematical Sciences, University of Copenhagen, February 29-March 2nd 2008.
A method for integral cohomology of posets.

Primer Congreso Hispano-Francés de Matemáticas, Real Sociedad Matemática Española, Sociedad Española de Matemática Aplicada y Société Mathématique de France, July 2007, Zaragoza (Spain).
A method for integral cohomology of posets.

SECA4, IV Seminar on Categories and Applications, June 2007, Universitat Autònoma de Barcelona.
A method for integral cohomology of posets.

Post-doc seminar, Department of Mathematical Sciences, University of Aberdeen, March 2007, Aberdeen, Scotland, U.K.
Semicoverings.

Topology and Geometry Seminar, Department of Mathematical Sciences, University of Aberdeen, October 2006, Aberdeen, Scotland, U.K.
All rank two p -local finite groups for odd prime p .

GGT, Groups and Geometry in Malaga 2006 Conference, Departamento de Álgebra, Geometría y Topología, Universidad de Málaga (Spain), September 2006.
Another approach to a conjecture of Webb.

Séminaire de topologie algébrique, Laboratoire d'Analyse, Géométrie et Applications (L.A.G.A.), April 2005, Institut Galilée, Université Paris 13.
All rank two p -local finite groups for odd prime p .

MAT.ES 2005, Primer Congreso Conjunto RSME-SCM-SEIO-SEMA
Sesion "Teoría de grupos y representaciones", Facultad de Matemáticas de la Universidad de Valencia (Spain), February 2005.
Todos los grupos finitos p -locales de rango 2 para p primo impar.

Preconference **Aspects of Group Actions**
Purdue University, West Lafayette (Indiana), United States, October 2004,
Department of Mathematics, Purdue University.
All rank two p -local finite groups for odd prime p .

Stays	2 weeks at University of Aberdeen (Scotland), November 2009.
	2 weeks at Universidad de Málaga (Spain), November 2009.
	1 week at Oberwolfach Institute (Germany), April 2009.
	1 week at Oberwolfach Institute (Germany), November 2008.
	3 months at Laboratoire d'Analyse, Géométrie et Applications (L.A.G.A.) Institut Galilée, Université Paris 13 , Paris (France), February-April 2005.
	2 weeks at Universidad Autónoma de Barcelona , Barcelona (Spain), October 2004.
	1 week at Universidad Autónoma de Barcelona , Barcelona (Spain), March 2004.
	2 weeks at University of Aberdeen , Aberdeen (Scotland), August 2002.
	3 weeks at Université Catholique de Louvain , Louvain la Neuve (Belgium), July 2001.
Teaching experience	Lecturer of "Topology" at University of Copenhagen, 2009/2010.
	Teaching assistant for "Algebraic Topology II" at University of Copenhagen, 2008/2009.
	Lecturer of "Topology" at University of Copenhagen, 2008/2009.
	Lecturer of "Algebraic Topology" at University of Aberdeen, 2007/2008.
	Lecturer of "Ordinary Differential Equations" as part of "Advanced Calculus" at University of Aberdeen, 2007/2008.
	Lecturer of "Ordinary Differential Equations" as part of "Advanced Calculus" at University of Aberdeen, 2006/2007.
	Teaching assistant for "Mathematics" at Universidad de Málaga, 2005/2006.
Teaching assistant for "Homological Algebra" at Universidad de Málaga, 2005/2006.	

- Other** **Adjunktpædagogikum** (Higher Education Teaching and Teaching Practice Programme for assistant professors and post docs) diploma, expected January 2010.
- Organizer** of the Copenhagen topology seminar 2008/2009.
- Organizer** of the Workshop “Local methods in fusion systems” (Copenhagen, December 2008)
- Organizer** of the Aberdeen topology seminar 2007/2008.
- Co-organizer** of the Aberdeen topology seminar 2006/2007.
- Publications and preprints** Díaz, A.; Glesser, A. ; Mazza, N. ; Park, S., **Control of transfer and weak closure in fusion systems**, Journal of Algebra, **323** (2010), Issue 2, 382-392.
- Díaz, A.; Libman, A., **Segal's conjecture and the Burnside ring of fusion systems**, Journal of the London Mathematical Society, **80** (2009), 665-679.
- Díaz, A.; Libman, A., **The Burnside ring of fusion systems**, Advances in Mathematics, **222** (2009), Issue 6, 1943-1963.
- Díaz, A., **A family of acyclic functors**, Journal of Pure and Applied Algebra **213** (2009), 783-794.
- Díaz, A.; Glesser, A.; Mazza, N. ; Park, S., **Glauberman's and Thompson's theorems for fusion systems**, Proc. Amer. Math. Soc. **137** (2009), 495-503.
- Díaz, A.; Ruiz, A.; Viruel, A., **All p -local finite groups of rank two for odd prime p** , Trans. Amer. Math. Soc. **359** (2007), 1725-1764.
- Díaz, A., **Homological Algebra on Graded Posets**, PhD. Thesis (2006).
- Díaz, A., **A local method for integral cohomology of posets**, preprint 2009.
- Díaz, A.; Glesser, A. ; Park, S. ; Stancu, R. , **Yoshida's and Tate's theorems on control of transfer for fusion systems**, preprint 2009.
- Díaz, A., **A note on pseudoprojectivity**, preprint 2009.