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ACADEMIC POSITIONS

- (January 2017 -) Temporary Position as Principal Investigator at the Mathematics Department of Westfälische Wilhelms-Universität Münster.
- (2012 - 2016) Postdoctoral researcher at the Mathematics Department of Freie Universität Berlin.
On maternity leave from September 2015 to March 2016 + part-time maternity leave from March to July 2016
- (2011 - 2012) Adjunct lecturer at the Economics Department of Universitat Pompeu Fabra.
- (2008 - 2011) PhD student at the Department of Algebra and Geometry of Universitat de Barcelona.

EDUCATION

- (July 2012) Ph.D. in Mathematics, Universitat de Barcelona.
- (September 2008) Master in Advanced Mathematics, Universitat de Barcelona.
- (September 2006) Physics Degree (*licenciatura*), Universitat de Barcelona.

RESEARCH FIELDS

- (Algebraic Geometry and Algebraic Topology) mixed Hodge theory, complex geometry, motivic homotopy theory, topology of complex algebraic varieties, homotopical methods in algebraic geometry, rational homotopy, intersection cohomology, operads.

PUBLICATIONS

- *Rational homotopy of complex projective varieties with normal isolated singularities* (with D. Chataur) *Forum Mathematicum* 29 (2017), no.1, 41–57.
- *Homotopy theory of mixed Hodge complexes* (with F. Guillén) *Tohoku Mathematical Journal*, 68 (2016), no.3, 349–375.
- *Cofibrant models of diagrams: mixed Hodge structures in rational homotopy* *Transactions of the American Mathematical Society*, 367 (2015), no.8, 5935–5970.
- *Weight filtration on the cohomology of complex analytic spaces* (with F. Guillén) *Journal of Singularities* 8 (2014), 83–99.
- *E_1 -formality of complex algebraic varieties* (with F. Guillén) *Algebraic & Geometric Topology* 14 (2014), no.5, 3049–3079.
- *Classification of isometries of spaces of constant curvature and invariant subspaces* *Linear Algebra and Its Applications* 450 (2014), 250–279.
- *Spectral Sequences and Models* *Arbeitsgemeinschaft: Rational Homotopy Theory in Mathematics and Physics. Oberwolfach Reports. European Mathematical Society, Zürich* 8 (2011), 1012–1015.

PREPRINTS

- *Sullivan minimal models of operad algebras* (with Agustí Roig) arXiv:1612.03862.
- *Derived A -infinity algebras and their homotopies* (with Daniela Egas Santander, Muriel Livernet and Sarah Whitehouse) arXiv:1609.08077.
- *Mixed Hodge structures on the intersection homotopy type of complex varieties with isolated singularities* (with D. Chataur) arXiv:1603.09125.

CONFERENCE TALKS

- *NRW Topology Meeting*. Osnabrück, Germany - November 2016.
Title. “Intersection homotopy type of complex varieties with isolated singularities”.
- *Homotopical and Categorical Methods in Algebra, Geometry and Topology*. University of la Rioja, Spain - November 2016.
Title. “Intersection homotopy type of complex varieties with isolated singularities”.
- *Czech, Slovenian, Austrian, Slovak and Catalan Mathematical Societies Joint Meeting*. IEC Barcelona, Spain - September 2016.
Title. “Homotopy theory of derived A_∞ -algebras”.
- *Women in Topology II*. Banff International Research Station, Canada - April 2016.
Title. “Derived algebraic structures”.
- *Second meeting of young researchers of the Royal Spanish Mathematical Society*. Universidad de Sevilla, Spain - September 2013.
Title. “The weight filtration in rational homotopy”.
- *Annual meeting of the French Topology Research Group: “Algebraic Topology and Applications”*. Université Lille I, France - October 2012.
Title. “ E_1 -formality of Complex Algebraic Varieties”.
- *Homotopical Algebra Summer Days*. IMUB, Barcelona, Spain - July 2012.
Title. “Homotopy Theory of Mixed Hodge Diagrams”.
- *Homotopical Algebra and its Applications (Celebrating Yves Félix’s 60th birthday)*. Centre International de Rencontres Mathématiques, France - June 2012.
Title. “Homotopy Theory of Mixed Hodge Diagrams”.
- *Homotopy in Algebra, Geometry and Topology*. Universidad de Santiago, Spain - June 2012.
Title. “Homotopy Theory of Mixed Hodge Diagrams”.
- *Arbeitsgemeinschaft: Rational homotopy theory in mathematics and physics*. Mathematisches Forschungsinstitut Oberwolfach, Germany - April 2011.
Title. “Spectral sequences and models”.
- *Homotopical methods in algebraic geometry*. Universidad de Sevilla, Spain - March 2010.
Title. “Minimal models of filtered algebras”.
- *Géométrie Algébrique en Liberté*. Lorentz Center, The Netherlands - June 2009.
Title. “The space of isometries of spaces of constant curvature”.

SEMINAR TALKS

- (2016) University of Copenhagen, Denmark (*Topology Seminar*); HIM Bonn, Germany (*Topology Junior Hausdorff Trimester Program*).
- (2014) Massachusetts Institute of Technology, USA (*Topology Seminar*); City University of New York, USA (*Topology seminar*).

- (2013) City University of New York, USA (*Topology seminar*); Freie Universität Berlin, Germany (*Forschungsseminar Geometrie und Topologie*); Stony Brook University, USA (*Seminar on Algebra, Geometry and Physics*); City University of New York, USA (*Einstein Chair Seminar*).
- (2012) Freie Universität Berlin, Germany (*Forschungsseminar Komplexe Analysis*); Université Lille I, France (*Séminaire de Topologie*).
- (2011) Universitat de Barcelona, Spain (*Grup de recerca Geometria i Topologia*).
- (2010) Institut Henry Poincaré, France (*Séminaire des thésards*); Université Lille I, France (*Séminaire de Topologie*).

RESEARCH STAYS

- Simons Center for Geometry and Physics, USA - October 2014 (1 month).
- City University of New York, USA (Host: Dennis Sullivan) - March 2013 (2 weeks) and October 2013 (3 weeks).
- Université Lille 1, France (Hosts: Daniel Tanré/David Chataur) - July 2010 (3 weeks), July 2011 (2 weeks), July 2013 (1 week), February 2014 (1 week), June 2014 (2 weeks).
- Université Paris XIII, France (Host: Denis-Charles Cisinski) - February 2010 (5 months).

TEACHING

- Rational homotopy theory and its interactions with complex geometry (short course). International University of Rabat, Morocco. July 2016.
- Algebra III: Special algebraic varieties (seminar) - Master in Mathematics, Freie Universität Berlin, Germany. Winter 2013-2014.
- Homotopical Algebra (short lecture series) - Graduate Center - City University of New York, USA. October 2013.
- Mathematics I, II and III (problem sessions) - Bachelor's Degree in International Business Economics, Universitat Pompeu Fabra, Spain. 2011-2012.
- Differential Geometry (problem sessions) - Bachelor's Degree in Mathematics, Universitat de Barcelona, Spain. Fall 2010-2011.
- Linear Geometry (problem sessions). Bachelor's Degree in Mathematics, Universitat de Barcelona, Spain. Fall 2009-2010.

FUNDED RESEARCH PROJECTS

- *Mixed Hodge structures in homotopy theory*, German Research Foundation (SPP 1786, 2015-2017). Principal Investigators: Joana Cirici and Marc Levine. Type of participation: temporary position as principal investigator.
- *Enhanced homotopy*, Spanish Ministry of Science and Innovation (MTM2013-42178-P, 2014-2017). Principal Investigator: Carles Casacuberta. Type of participation: team member.
- *Space-Time-Matter: Algebraic Geometry, Deformations, Moduli and Vector Bundles*, German Research Foundation (SFB 647, 2013 - 2016). Coordinators: Klaus Altmann, Gavril Farkas and Alexander Schmitt. Type of participation: postdoctoral contract.
- *Algebraic Geometry and Topology*, Government of Catalonia (SGR 119, 2009-2013). Coordinator: Carles Casacuberta. Type of participation: team member.
- *Non abelian structures in algebraic geometry and topology*, Spanish Ministry of Science and Innovation (MTM2009-09557, 2010-2013). Principal Investigator: Pere Pascual. Type of participation: team member.

- *Mixed Motives and Operads*, Spanish Ministry of Science and Innovation (MTM2006-14575, 2007-2010). Principal Investigator: Francisco Guillén. Type of participation: contract as PhD student.

AWARDS AND FELLOWSHIPS

- (2015) Accreditation PhD Lecturer (Profesor Ayudante Doctor) - ANECA, Spain.
- (2015) Principal Investigator of the DFG research project “Mixed Hodge structures in homotopy theory” within the SPP 1786 - Homotopy theory and algebraic geometry (24 months).
- (2014) Guest researcher at the Simons Center for Geometry and Physics, Stony Brook (1 month)
- (2014) Postdoctoral fellowship at Freie Universität Berlin - Center for Research Strategy - Dahlem International Network (24 months).
- (2013) Postdoctoral fellowship at Freie Universität Berlin - Dahlem Research School - Marie Curie Action Cofund (15 months).
- (2012) Qualification Maître de Conférences - French Ministry of Higher Education and Research.
- (2012) Extraordinary PhD award from the Faculty of Mathematics of Universitat de Barcelona.
- (2010) Visiting pre-doctoral grant at Université Paris XIII - Spanish Ministry of Science and Innovation (6 months).
- (2007) Fellowship for Master’s and Doctoral studies at Universitat de Barcelona, FPI - Spanish Ministry of Science and Innovation (4 years).

OTHER PROFESSIONAL ACTIVITIES

- Co-organizer of the workshop “Infinity-Operads and Applications”.
Universität Osnabrück - Expected July 2017. ¶ Organizer of the regular seminar “Topology of moduli spaces of vector bundles”.
Freie Universität Berlin, September 2016- December 2016.
- Co-organizer of the workshop “Women in homotopy theory and algebraic geometry”.
Freie Universität Berlin - September 2016.
- Scientific committee member of the “School on Rational Homotopy and its Interactions”.
Rabat - July 2016.
- Thesis committee member for Bibinur Shupaeva (2013) and Anna Wissdorf (2015).
Freie Universität Berlin.
- Organizer of the regular seminar “Representations of fundamental groups and Higgs bundles”.
Freie Universität Berlin, Summer 2013 and Winter 2013-2014.
- Organizer of the regular seminar “Derived deformation theory”.
Universitat de Barcelona, 2010-2011.