

# Federico Cantero Morán

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*Curriculum Vitae, September 2021*

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## Degrees

- 2013 **PhD in Mathematics**, *University of Barcelona*, Barcelona, Spain  
Thesis title: Homology stability for spaces of surfaces  
Supervisors: Carles Casacuberta and Oscar Randal-Williams
- 2007 **Master in Advanced Mathematics**, *University of Barcelona*
- 2007 **Graded in Mathematical Sciences**, *Complutense University of Madrid*

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## Positions

- 2019–present **Profesor ayudante doctor**, *Autonomous University of Madrid*, Madrid, Spain
- 2016–2018 **Postdoctoral researcher**, *BGSMath*, Barcelona, Spain
- 2015–2016 **Postdoctoral researcher**, *Catholic University of Louvain*, Louvain-la-neuve, Belgium
- 2013–2015 **Postdoctoral researcher**, *University of Münster*, Münster, Germany
- 2012–2013 **Teaching assistant**, *Pompeu Fabra University*, Barcelona, Spain
- 2008–2012 **PhD student**, *University of Barcelona*, Barcelona, Spain  
FPI Grant BES-2008-002642, funded by the Spanish Ministry of Science and Education

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## Publications

- [1] **Almost-extreme Khovanov spectra**, *accepted for publication in Selecta Mathematica*, [arXiv:2012.13724](https://arxiv.org/abs/2012.13724) (2020)  
Joint with Marithania Silvero
- [2] **Higher Steenrod squares for Khovanov homology**, *Advances in Mathematics* 369, 107-153 (2020)
- [3] **Extreme Khovanov spectra**, *Revista Matemática iberoamericana* 36 3, 661–670 (2020)  
Joint with Marithania Silvero
- [4] **Weight decompositions of Thom spaces of vector bundles in rational homotopy theory**, *Journal of Homotopy and Related Structures* (2019)  
Joint with Urtzi Buijs and Joana Cirici

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1/11

- [5] **Homological stability for spaces of embedded surfaces**, *Geometry & Topology* 21 1387-1467 (2017)  
Joint with Oscar Randal-Williams
- [6] **On homological stability for configuration spaces in closed background manifolds**, *Documenta Mathematica* 20, 753-805 (2015)  
Joint with Martin Palmer

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## Preprints

- [7] **A note on hyperspaces and the compact-open topology**, [arXiv:1412.4249](https://arxiv.org/abs/1412.4249) (2014)
- [8] **The space of merging submanifolds in  $\mathbb{R}^n$** , [arXiv:1412.4938](https://arxiv.org/abs/1412.4938) (2014)

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## Awards

- 25 October 2013 **Best Poster of the 20th Spanish Topology Meeting**, Madrid, Spain  
awarded by the Spanish Topology Network for a poster entitled *A metric for the space of submanifolds of Galatius and Randal-Williams*
- 22 October 2011 **Best Poster of the 18th Spanish Topology Meeting**, Seville, Spain  
awarded by the Spanish Topology Network for a poster entitled *Homology of configuration spaces of surfaces*

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## Invited talks

- 14 June 2021 **Higher Steenrod squares for Khovanov homology**, *Congreso conjunto de la RSME y la SMM*, Guanajuato
- 8 June 2021 **Higher Steenrod squares for Khovanov homology**, *Casacuberta 60th*, Barcelona
- 20 November 2020 **Unstable Pontryagin classes after Weiss**, *Seminario de doctorado del IMUS*, Sevilla
- 21 September 2020 **Higher Steenrod squares in Khovanov homology**, *Workshop jóvenes investigadores UCM*, Madrid
- 6 August 2019 **Higher Steenrod squares for Khovanov homology**, *Floer homotopy*, University of Oregon, Eugene, Oregon, USA
- 7 May 2019 **Higher Steenrod squares for Khovanov homology**, *TQFT Seminar*, Técnico Lisboa, Lisboa
- 29 November 2018 **The space of merging submanifolds**, *Gong show talk at the Semester Program "Homotopy harnessing higher structures"*, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom
- 22 November 2018 **Low-dimensional spatial refinements of Khovanov functors**, *Topology Seminar*, Catholic University of Louvain, Louvain-la-Neuve, Belgium

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- 29 June 2018 **Realisations of Khovanov spectra**, *MCHAGT*, University of Almería, Almería
- 22 June 2018 **Realisations of Khovanov spectra**, *International Conference on Manifold, Groups and Homotopy*, Sabhal Mòr Ostaig, Island of Skye
- 20–21 March 2018 **Extreme Khovanov spectra**, *Topology and Malaga Meeting*, University of Málaga, Málaga, Spain
- 23 January 2018 **The space of merging submanifolds**, *Topology seminar*, University of Bonn, Bonn, Germany
- 30 September 2017 **Rational homotopy theory of Thom spaces**, *Joint Meeting of the Catalan and Edinburgh Mathematical Societies*, University of Edinburgh, Edinburgh
- 15 June 2017 **Rational homotopy theory of Thom spaces**, *Joint Meeting of the Catalan, Spanish and Swedish Mathematical Societies*, University of Umea, Umea
- 3 February 2017 **Rational homotopy theory of Thom spaces**, *Congress of the Royal Spanish Mathematical Society*, University of Zaragoza, Zaragoza
- 8 December 2016 **Homological stability for spaces of embedded surfaces**, *Workshop on Surface bundles*, Oberwolfach
- 21 October 2016 **On the scanning map**, *Spanish Topology Network Meeting*, University of Málaga, Málaga, Spain
- 1 July 2015 **On homological stability for configuration spaces in closed background manifolds**, *Fourth Spanish Young Topologists Meeting*, Complutense University of Madrid, Madrid, Spain
- 30 April 2015 **On homological stability for configuration spaces in closed background manifolds**, *Prof. Bunke Seminar*, University of Regensburg, Regensburg, Germany
- 12 February 2015 **On homological stability for configuration spaces in closed background manifolds**, *Algebra Seminar*, University of Santiago de Compostela, Santiago de Compostela, Spain
- 4 February 2015 **On homological stability for configuration spaces in closed background manifolds**, *Congress of the Royal Spanish Mathematical Society*, University of Granada, Granada, Spain
- 8 January 2015 **On homological stability for configuration spaces in closed background manifolds**, *Topology Seminar*, Autonomous University of Barcelona, Bellaterra, Barcelona, Spain
- 6 November 2014 **The stable homology of the space of embedded surfaces**, *Topology Seminar*, Catholic University of Louvain, Louvain-la-Neuve, Belgium
- 30 June – 4 July 2014 **On homological stability for configuration spaces in closed background manifolds**, *Young Topologists Meeting*, University of Copenhagen, Copenhagen, Denmark

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- 12–14 December 2013 **The stable homology of the space of embedded surfaces: Closed background manifolds**, *Second Spanish Young Topologists Meeting*, UPC, Barcelona, Spain
- 16–20 September 2013 **Characteristic classes of surfaces subbundles**, *Congreso de Jóvenes Investigadores de la Real Sociedad Matemática Española*, Seville, Spain
- 18 February 2013 **Homological stability for spaces of submanifolds**, *Seminario del Departamento de Matemáticas*, UNED, Madrid, Spain
- 21–25 January 2013 **Homological stability for spaces of submanifolds**, *Congreso de la Real Sociedad Matemática Española*, Santiago de Compostela, Spain
- 19 October 2012 **The space of surfaces in a manifold**, *Conference of Young Researchers on Mathematics*, organized by the Catalan Mathematical Society, Barcelona, Spain
- 10 July 2012 **Homological stability for spaces of surfaces in a manifold**, *Topologie Oberseminar*, University of Münster, Münster, Germany
- 2–6 July 2012 **Homological stability for spaces of surfaces in a manifold**, *Young Topologists Meeting*, University of Copenhagen, Copenhagen, Denmark
- 1–2 June 2012 **Stable homology of the space of surfaces in a manifold**, *Homotopy in Algebra, Geometry and Topology*, University of Santiago de Compostela, Santiago de Compostela, Spain
- 15 July 2011 **Homological stability for configurations of surfaces**, *Topology Seminar*, Autonomous University of Barcelona, Bellaterra, Barcelona, Spain

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## Contributed Talks

- May 2018 **Three talks at Homotopy types for Khovanov homology**, *Topology seminar*, University of Barcelona, Barcelona, Spain
- 18 December 2017 **Surface bundles with multiple fiberings**, *Topology seminar*, University of Barcelona, Barcelona, Spain
- 16 and 30 October 2017 **The space of merging submanifolds**, *Topology seminar*, University of Barcelona, Barcelona, Spain
- 25 November 2016 **Rational homotopy theory of Thom spaces**, *Topology Seminar*, Autonomous University of Barcelona, Bellaterra, Barcelona, Spain
- 16 December 2015 **The stable homology of the space of embedded surfaces**, *Topology Seminar*, Catholic University of Louvain, Louvain-la-Neuve, Belgium
- 5 March 2015 **Orthogonal Calculus**, *Leray Seminar*, University of Münster, Münster, Germany
- 19 January 2015 **Surgery in the middle dimension II**, *Topology Seminar*, University of Münster, Münster, Germany
- 29 October 2014 **Real K-theory**, *Seminar on positive scalar curvature*, University of Münster, Münster, Germany

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- 30 May 2014 **Homological stability for configuration spaces in closed background manifolds**, *Leray Seminar*, University of Münster, Münster, Germany
- 28 November 2013 **Spaces of connected subsurfaces II**, *Leray Seminar*, University of Münster, Münster, Germany
- 14 November 2013 **Spaces of connected subsurfaces I**, *Leray Seminar*, University of Münster, Münster, Germany
- 24 March 2012 **The stable homology of the space of embedded surfaces in a manifold**, *Higher homotopy in Barcelona*, University of Barcelona, Barcelona, Spain
- 23 October 2011 **Homological stability for configuration spaces of surfaces**, *Higher Homotopy in Seville*, University of Seville, Seville, Spain
- 4 February 2011 **Configuration spaces of oriented surfaces**, *Higher Homotopy in London*, London Metropolitan University, London, United Kingdom
- 11 November 2010 **The Pontryagin–Thom construction**, *Junior Topology Seminar*, Autonomous University of Barcelona, Bellaterra, Barcelona, Spain
- June 2011 **Symmetric spectra**, *Junior Topology Seminar*, Autonomous University of Barcelona, Bellaterra, Barcelona, Spain
- 14 April 2010 **Model category structure of DGCAT**, *Seminar of the research group on geometry and algebraic topology*, University of Barcelona, Barcelona, Spain
- January 2010 **The classification of TCFT's**, *Seminar of the research group on geometry and algebraic topology*, University of Barcelona, Barcelona, Spain
- 25 November 2009 **Formal completion**, *Junior Topology Seminar*, Autonomous University of Barcelona, Bellaterra, Barcelona, Spain
- 17 February 2009 **2-Groups**, *Seminar on Groupoids and Homotopy*, University of Glasgow, Glasgow, United Kingdom
- 31 October 2007 **The cohomology of the mapping class group**, *HOCAT seminar*, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain

## Posters

- 25–26 October 2013 **A metric for the space of submanifolds of Galatius and Randall-Williams**, *20th Spanish Topology Meeting*, ICMAT, Madrid, Spain
- 21–22 October 2011 **Homology of configuration spaces of surfaces**, *18th Spanish Topology Meeting*, University of Seville, Seville, Spain
- 23–24 October 2009 **Categories and topology**, *16th Spanish Topology Meeting*, University of Almería, Almería, Spain

## Conferences attended

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- 13–15 August 2021 **Perspectives on quantum link homology theories**, *Regensburg*
- 24–25 June 2021 **MCHAGT 2021**, *Sevilla*
- 21–25 June 2021 **Manifolds and K-theory: the legacy of Andrew Ranicki**, *Edinburgh*
- 21–25 June 2021 **Workshop on Higher Structures and Operadic Calculus**, *Barcelona*
- 17–21 June 2019 **Knot concordance and low-dimensional manifolds**, *Le Croisic, France*
- 9–10 May 2019 **Conference on “Higher Homotopy Algebras in Topology”**, *Max Planck Insititut for Mathematics, Bonn, Germany*
- 3–7 December 2018 **Conference “Manifolds”**, *Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom*
- 5–9 June 2017 **Conference on Groups, Manifolds, and K-Theory**, *University of Münster, Münster, Germany*
- 18–27 January 2017 **School on low dimensional topology**, *University of Zaragoza, Zaragoza*
- 27 June – 1 July 2016 **Topology of manifolds**, *University of Lisbon, Lisboa*
- 7–11 September 2015 **Third Congress of Young Researchers of the Royal Spanish Mathematical Society**, *University of Murcia, Murcia, Spain*
- 22–26 June 2015 **Summer School on Functor Calculus**, *University of Münster, Münster, Germany*
- 1–5 July 2015 **de la Vallée Poussin distinguished lecture series by Dror Bar Natan**, *Catholic University of Louvain, Louvain-la-Neuve, Belgium*
- 21–22 November 2014 **22th NRW Topology Meeting**, *University of Bonn, Bonn, Germany*
- 23–27 June 2014 **Manifolds, K-theory and related topics**, *Inter-University Center, Dubrovnik*
- 27–31 January 2014 **Introductory Workshop on Algebraic Topology**, *MSRI, Berkeley*
- 8–18 October 2013 **Summer School on field theories, conformal nets and Kac-Moody groups and 17th Conference on Twists, generalised cohomology and applications**, *University of Münster, Münster, Germany*
- 26–30 August 2013 **Masterclass on Homological Stability**, *University of Copenhagen, Copenhagen, Denmark*
- 30 May – 1 June 2013 **Homotopy Methods in Algebra, Geometry and Topology**, *Polytechnic University of Barcelona, Barcelona, Spain*

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- 19–20 October 2012 **XIX Spanish Topology Meeting**, *University of A Coruña*, A Coruña, Spain
- 12–16 December 2011 **Conference on the Tautological Ring**, *University of Copenhagen*, Copenhagen, Denmark
- 2 December 2011 **Thematic Day on Topological Quantum Field Theories**, *Mathematical Institute of the University of Barcelona*, Barcelona, Spain
- 18–21 July 2011 **Summer School on Groups and Manifolds**, *University of Münster*, Münster, Germany
- 9–15 August 2010 **West Coast Algebraic Topology Summer School**, *University of Oregon*, Eugene, Oregon, USA
- 10–14 May 2010 **Course on Applied and Toric Topology**, *University of Malaga*, Málaga, Spain
- 17–26 March 2010 **Second Advanced Course on Geometry and Physics: Geometric Langlands and Gauge Theory**, *Centre de Recerca Matemàtica*, Bellaterra, Barcelona, Spain
- 12–13 March 2010 **Thematic day on Homotopical Methods in Geometry and Algebra**, *University of Seville*, Seville, Spain
- 22–27 January 2010 **CSASC 2010**, *University of Prague*, Prague, Czech Republic
- 20 November 2009 **Thematic day on Symmetric Products**, *Complutense University of Madrid*, Madrid, Spain
- 19–23 October 2009 **Advanced course on TQFT**, *University of Almería*, Almería, Spain
- 7–12 September 2009 **Advanced school on Homotopy Theory and Algebraic Geometry**, *University of Seville*, Seville, Spain
- 1–5 June 2009 **Conference on Geometry and Topology**, *University of Münster*, Münster, Germany
- 20–30 April 2009 **Thematic School on Operads and International Conference on Operads**, *Centre International de Rencontres Mathématiques*, Luminy, Marseille
- 15–19 September 2008 **International Conference on K-theory and Homotopy Theory**, *University of Santiago de Compostela*, Santiago de Compostela, Spain
- 10–12 September 2008 **V Seminar on Categories and Applications**, *University of Vigo*, Pontevedra, Spain
- July 2008 **HOCAT 2008**, *Centre de Recerca Matemàtica*, Bellaterra, Barcelona, Spain
- 16–20 June 2008 **Workshop on Categorical Groups**, *University of Barcelona*, Barcelona, Spain

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- 14–19 April 2008 **Higher Operads Week**, *Centre de Recerca Matemàtica*, Bellaterra, Barcelona, Spain
- 1–5 April 2008 **Workshop on Topological and Differential Stacks**, *Centre de Recerca Matemàtica*, Bellaterra, Barcelona, Spain
- 14 february 2008 **Advanced Course on Simplicial Methods in Higher Categories**, *Centre de Recerca Matemàtica*, Bellaterra, Barcelona, Spain
- 5–14 November 2007 **Workshop on Derived Categories**, *Centre de Recerca Matemàtica*, Bellaterra, Barcelona, Spain
- 6–9 June 2007 **IV Seminar on Categories and Applications**, *Centre de Recerca Matemàtica*, Bellaterra, Barcelona, Spain
- 26–28 March 2007 **Lectures on the Topology of Moduli Spaces**, *Catholic University of Louvain*, Louvain-la-Neuve, Belgium
- 22–30 August 2006 **International Congress of Mathematicians**, Madrid, Spain

## Stays

- 30 June – 2 July 2021 **Centre de Recerca Matemàtica**, Barcelona, Spain, invited for the Semester Programm [IRP Higher Homotopical Structures](#)
- 19 November – 8 December 2018 **Newton Institute for Mathematical Sciences**, Cambridge, invited for the Semester Programm [Homotopy harnessing higher structures](#)
- 21–31 October 2018 **Newton Institute for Mathematical Sciences**, Cambridge, invited for the Semester Programm [Homotopy harnessing higher structures](#)
- August 2015 **Hausdorff Institute for Mathematics**, Bonn, invited for the Hausdorff Trimester Programm [Homotopy theory, manifolds and field theories](#)
- February–June 2011 **University of Copenhagen**, *Centre for Symmetry and Deformation*, Copenhagen, Denmark, visiting Prof. Randal-Williams  
Short stay EEBB-I-2011-03207 within the FPI program of the Spanish Ministry of Science and Innovation
- January–March 2009 **University of Glasgow**, *Department of Mathematics*, Glasgow, United Kingdom, visiting Prof. Leinster  
Short stay EST2009010983 within the FPI program of the Spanish Ministry of Science and Education

## Short stays

- May 2013 **University of Cambridge**, *Department of Mathematics*, Cambridge, United Kingdom, visiting Prof. Randal-Williams
- August 2012 **University of Copenhagen**, *Centre for Symmetry and Deformation*, Copenhagen, Denmark, visiting Prof. Randal-Williams

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## Research Projects

- 2017–2020 **Algebraic topology and low dimensional topology**, *researcher*, awarded by the Spanish Ministry of Economy, Industry and Competitiveness, ref. no. MTM2016-76453-C2-2-P, main researchers: Prof. Carles Casacuberta and Javier Gutiérrez, University of Barcelona
- 2014–2016 **Enhanced homotopy**, *researcher*, awarded by the Spanish Ministry of Science and Innovation, ref. no. MTM2013-42178-P, main researcher: Prof. Carles Casacuberta, University of Barcelona
- 2010–2013 **Higher order homotopy in algebra and geometry**, *researcher*, awarded by the Spanish Ministry of Science and Innovation, ref. no. MTM2010-15831, main researcher: Prof. Carles Casacuberta, University of Barcelona
- 2009–2013 **Research group on geometry and algebraic topology**, *researcher*, Catalan Established Research Group, ref. no. 2009 SGR 119, main researcher: Prof. Carles Casacuberta, University of Barcelona
- 2007–2009 **Higher order homotopy structures**, *researcher*, awarded by the Spanish Ministry of Science and Education, ref. no. MTM2007-63277, main researcher: Prof. Carles Casacuberta, University of Barcelona

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## Education Experience

- 2018 **Supervision of final degree project of Solange Coronel Varillas (21 July 2018)**, *Cohomology of configuration spaces in the plane*, University of Barcelona, Barcelona, Spain
- 2018 **Geometry and Topology of Surfaces**, *3rd year of the degree on Mathematics*, University of Barcelona, Barcelona, Spain
- 2017 **Linear Geometry**, *2nd year of the degree on Mathematics*
- 2012–2013 **Mathematics I**, *first year of the degree on International Business Economics*, Pompeu Fabra University, Barcelona, Spain  
Taught in English
- 2012–2013 **Mathematics I**, *first year of the degree on Business Administration*, Pompeu Fabra University, Barcelona, Spain
- 2012, 2nd semester **Topology**, *2nd year of the degree on Mathematics*
- 2012, 2nd semester **Geometry and Topology of Surfaces**, *3rd year of the degree on Mathematics*, University of Barcelona, Barcelona, Spain  
This was a new course and its problem assignments and sheets were designed by the two teaching assistants.
- 2010, 1st semester **Algebraic Topology**, *4th year of the degree on Mathematics*, University of Barcelona, Barcelona, Spain

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## Organisation of Seminars and Workshops

- October 2017 **BMS - BGSMath Junior Meeting - Algebra and Geometry Session**, *Barcelona Graduate School of Mathematics*, Barcelona, Spain  
<https://bgsmath.cat/event/bms-bgsmath-junior-meeting/>
- July 2017 **RET Summer School on Distributions and h-Principles**, *University of Barcelona*, Barcelona, Spain  
<http://www.ub.edu/h-principles/>
- January – June 2016 **Topology seminar**, *Catholic University of Louvain*, Louvain-la-neuve, Belgium  
<https://uclouvain.be/503942.html>
- September 2015 **Third Congress of Young Researchers of the Royal Spanish Mathematical Society**, *Parallel sesion on Topology*, University of Murcia, Murcia, Spain  
<http://www.um.es/jovenesrsme2015/topologia.php>
- June 2015 **Summer School on Functor Calculus**, *University of Münster*, Münster, Germany  
<https://sites.google.com/site/2015muenstercalculus/home>
- October 2014 – October 2015 **Leray Seminar**, *University of Münster*, Münster, Germany  
<http://wwwmath.uni-muenster.de/reine/u/topos/AG-Leray/Leray-seminar.html>
- 21 October 2012 **Workshop Higher Homotopy in A Coruña**, *University of A Coruña*, A Coruña, Spain
- November 2009 – January 2010 **Seminar of the research group on geometry and algebraic topology**, *University of Barcelona*, Barcelona, Spain
- 2007–2008 **Seminar on Homological Algebra**, *University of Barcelona*, Barcelona, Spain

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## Outreach

- November 2020 **The RSA system**, *Science week at UAM 2020*, Universidad Autónoma de Madrid, Madrid, Spain  
addressed to high school students
- November 2019 **The RSA system**, *Science week at UAM 2020*, Universidad Autónoma de Madrid, Madrid, Spain  
addressed to high school students
- 7 and 14 November 2017 **Two talks on the Kepler conjecture and Hamming codes**, *Science week at UB 2017*, University of Barcelona, Barcelona, Spain  
addressed to high school students
- 28 February 2012 **Pontryagin's theorem**, *SIMBa*, University of Barcelona, Barcelona, Spain  
addressed to undergraduate and graduate students

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June 2008 **Two talks on the RSA algorithm**, Colegio Peñarredonda, A Coruña, Spain  
addressed to high school students

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## Languages

Spanish First Language  
English Advanced  
German Intermediate  
Portuguese Intermediate

*CAE, 2007*  
*Level G6 at Goethe Institut, 2003*