

Curriculum Vitae, Cesar Ceballos

CONTACT INFORMATION	Fakultät für Mathematik Universität Wien Oskar-Morgenstern-Platz 1 A-1090 Vienna, Austria	tel: +43 677 61585718 E-mail: cesar.ceballos@univie.ac.at http://www.mat.univie.ac.at/~cesar/
PERSONAL INFORMATION	Date of birth: October 9, 1987 Citizenship: Colombia Marital Status: Married, one son, one daughter	
RESEARCH INTERESTS	My research is motivated by interactions between algebraic, combinatorial, and geometric structures. I am highly interested in their connections with other areas of mathematics and science. Some specific areas and topics I am interested in include: <ul style="list-style-type: none">• Discrete Geometry, Polytopes, Simplicial Complexes and Topological Spheres• Algebraic, Enumerative, and Geometric Combinatorics• Cluster Algebras, Cluster Complexes and Coxeter Groups• Hopf Algebras and Structure Constants• Calabi-Yau Geometry, Toric Varieties and Tropical Geometry	
POSITIONS	Postdoctoral Fellow at Universität Wien Banting Postdoctoral Fellow at York University Visitor member of the Fields Institute Postdoctoral Fellow at Freie Universität Berlin	2015 – 2013 – 2015 2013 – 2015 2012 – 2013
EDUCATION	Freie Universität Berlin , Berlin, Germany <i>Ph.D. in Mathematics, Summa Cum Laude</i> <ul style="list-style-type: none">• Thesis: On associahedra and related topics• Advisor: Professor Günter M. Ziegler Universiteit Utrecht , Utrecht, The Netherlands <i>Master Class on Aspects of Calabi-Yau Geometries</i> <ul style="list-style-type: none">• Thesis: A combinatorial model for a torus fibration of a K3 surface in the large complex structure• Advisor: Professor Jan Stienstra Universidad de los Andes , Bogota, Colombia <i>M.Sc. in Mathematics</i> <ul style="list-style-type: none">• Thesis: The system of permutations of a fine mixed subdivision of a simplex• Advisor: Professor Federico Ardila Universidad del Valle , Cali, Colombia <i>B.Sc. in Mathematics, Magna Cum Laude</i> <ul style="list-style-type: none">• Thesis: Series incondicionalmente convergentes y normalmente sumables en espacios de Banach• Advisor: Professor Guillermo Restrepo	2009 – 2012 2008 – 2009 2007 – 2008 2002 – 2006

- HONOURS AND AWARDS
- Banting Postdoctoral Fellowship, Government of Canada's most prestigious award for postdoctoral researches, 2013-2015
 - Postdoctoral Fellowship, RTG "Methods for Discrete Structures", 2012-2013
 - Doctoral Fellowship, RTG "Methods for Discrete Structures", 2009-2012
 - MRI Master Class Fellowship, 2008-2009
 - Student Scholarship Award for Art and Science, Mazda Foundation, 2008
 - Student Research Project Grant, Proyecto Semilla, Universidad de los Andes, 2008
 - Master and Teaching Assistant Fellowship, Universidad de los Andes, 2007-2008
 - Second best graduating undergraduate student, Universidad del Valle, 2007
 - Bronze Medal, IX Ibero-American Mathematical Olympiads for university students, 2006
 - Honorable mention, VII Ibero-American Mathematical Olympiads for university students, 2004
- GRANTS
- Government of Canada, Banting Award, project "Combinatorial Hopf Algebra of Polytopes and Structure Constants", 140.000 CAD in research funding for a period of two years with additional 30.000 CAD granted by York University (120.000 EUR total), 2013-2015.
- PUBLICATIONS
- (My up-to-date list of publications is available at <http://www.mat.univie.ac.at/~cesar/>)
 - 12 articles in international journals, both general (*Adv. Math.*, *Trans. AMS*) and specialized (*Combinatorica*, *DCG*, *Elec. J. Comb.*, *Europ. J. Comb.*, *J. Alg. Comb.*, *J. Beitr. Alg. Geom.*, *JCTA*, *SIAM J. on Discrete Mathematics*).
 - 1 publication of a chapter in a book.
 - 10 international peer-reviewed conference proceedings.
 - 1 preprint.
- SELECTED TALKS
- 19th ÖMG Congress and Annual DMV Meeting, Salzburg, Austria, Sep 2017.
 - European Conference on Combinatorics, Graph Theory and Applications, Vienna, Austria, Aug 2017.
 - Formal Power Series and Algebraic Combinatorics, FPSAC, London, England, Jul 2017.
 - Algebraic and Geometric Combinatorics of Reflection Groups, Centre de Recherches Mathématiques, Montreal, Canada, Jun 2017.
 - Geometry and Analysis on Groups Research Seminar, University of Vienna, Austria, Apr 2017.
 - The 78th Séminaire Lotharingien de Combinatoire, Domaine Saint-Jacques, France, Mar 2017.
 - Algebra and Number Theory Seminar, Graz, Austria, Nov 2016.
 - Seminar at École Polytechnique, Palaiseau, France, Apr 2016.
 - The 76th Séminaire Lotharingien de Combinatoire, Domaine Saint-Jacques, France, Apr 2016.
 - Formal Power Series and Algebraic Combinatorics, FPSAC, Daejeon, South Korea, Jul 2015.
 - UBC Math Colloquium, University of British Columbia, Canada, Jan 2015.
 - Coloquio Latino Americano de Algebra, Lima, Peru, Dec 2014.
 - Discrete Geometry and Combinatorics Seminar, Cornell University, USA, Nov 2014.
 - Hall and Cluster Algebras, Centre de Recherches Mathématiques, Montreal, Canada, May 2014.
 - Combinatorics Seminar, University of Washington, USA, Mar 2014.
 - 60th anniversary of the Mathematics Department, Universidad del Valle, Colombia, Jan 2014.
 - XIX Colombian Mathematics Conference, Barranquilla, Colombia, Jul 2013.
 - Formal Power Series and Algebraic Combinatorics, FPSAC, Paris, France, Jun 2013.
 - Combinatorics Seminar, University of Minnesota, USA, May 2013.
 - Formal Power Series and Algebraic Combinatorics, FPSAC, Nagoya, Japan, Jul-Aug 2012.
 - Algebra-Geometry-Combinatorics Seminar, San Francisco State University, USA, Nov 2011.
 - Algebra and Discrete Mathematics Seminar, UC Davis, USA, Nov 2011.
 - Applied Algebra Seminar, York University, Canada, Nov 2011.
 - LaCIM Seminar, LaCIM, Canada, Nov 2011.
 - Graduate Colloquium, Zurich, Switzerland, Nov 2010.
 - MDS Monday Colloquium, Berlin, Germany, May 2009.

AFFILIATIONS AND MEMBERSHIPS University of Vienna, since 2015
York University, 2013-2015
Fields Institute, 2013-2015
Discrete Geometry Group, Freie Universität Berlin, 2009-2013
DFG research training group “Methods for Discrete Structures”, 2009-2013
Berlin Mathematical School, 2009-2013
SFSU-Colombia Combinatorics Initiative, since 2007

TEACHING EXPERIENCE Professor, Differential Calculus with Applications, York University, Summer 2015
Professor, Differential Calculus with Applications, York University, Fall 2013
Instructor, Calculus III, Vector Calculus and Linear Algebra, Universidad de los Andes, 2008
Instructor, Linear Algebra, Universidad de los Andes, 2007
Instructor, Calculus I, Universidad del Valle, 2006
Teacher, Mathematical Olympiads for high school students, Intercambio Estudiantil, 2004, 2005, 2006
Teacher, Mathematical Olympiads for high school students, Hispanoamericano, Cali, 2005, 2006
Teacher, Mathematical Olympiads for high school students, Liceo Tacuri, Cali, 2006
Instructor, Mathematical Olympiads for university students, Universidad Javeriana, Cali, 2005

ACADEMIC ACTIVITIES Co-chair of the organizing committee, Sixth Encuentro Colombiano de Combinatoria ECCO 2018
Instructor, Workshop on Mathematics and Robotics, Clubes de Ciencia Colombia, Medellín, 2016
Organizer, Fifth Encuentro Colombiano de Combinatoria ECCO 2016
Organizer and Program Committee Member, Fourth Encuentro Colombiano de Combinatoria ECCO 2014
Organizer, Third Encuentro Colombiano de Combinatoria ECCO 2012
Organizer, Rational Combinatorics Seminar, University of Vienna, 2015 - present
Organizer, Combinatorics Working Seminar, University of Vienna, 2015 - present
Organizer, Applied Algebra Seminar, York University, 2013 - 2015
Organizer, Algebraic Combinatorics Seminar, Fields Institute, 2013 - 2015
Organizer, Reading Seminar on Schubert Calculus, Fields Institute, 2013 - 2014
Organizer, Seminar on Polyhedral Combinatorics, FU Berlin 2012
Organizer, Seminar on Associahedra and Related Structures, FU Berlin 2011-2012
Student Representative of the Berlin Mathematical School, 2010-2011

STUDENT SUPERVISION Andrés Saldaña, undergraduate thesis “Tutte polynomials, knots, and medial graphs”.
Universidad del Valle, (co-supervised jointly with Federico Ardila). Defended on April 13, 2016.
Hanner Bastidas, undergraduate thesis “Combinatorial properties of a robot moving in a rectangular grid”.
Universidad del Valle, (co-supervised jointly with Federico Ardila). Defended on October 1, 2015.

LANGUAGES Spanish (native), English (fluent), German (fluent)

REFERENCES

Prof. Federico Ardila
San Francisco State University
San Francisco, USA
phone: *available on request*
e-mail: *available on request*

Prof. Francisco Santos
University of Cantabria
Santander, Spain
phone: *available on request*
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Prof. Christian Krattenthaler
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