

Roi Docampo Álvarez

University of Utah ■ Department of Mathematics ■ 155 S 1400 E RM 233 ■ Salt Lake City, UT, 84112
docampo@math.utah.edu ■ (801) 585-9112 ■ <http://www.math.utah.edu/~docampo>

BIOGRAPHICAL	Born May 22, 1978, in Ourense (Spain).
EMPLOYMENT	Wylie Assistant Professor (Lecturer), University of Utah, July 2009 – present Research/Teaching Assistant, University of Illinois at Chicago, August 2003 – July 2009
EDUCATION	University of Illinois at Chicago, Ph. D. in Mathematics, 2009 Thesis: <i>Arcs on determinantal varieties</i> . Advisor: Lawrence Ein Universidade de Santiago de Compostela, Diploma de Estudios Avanzados, 2003 Universidade de Santiago de Compostela, Licenciatura en Matemáticas, 2001
RESEARCH INTERESTS	Algebraic geometry and valuation theory: birational geometry, multiplier ideals, arc spaces, jet schemes, motivic integration, Riemann-Zariski spaces, Berkovich spaces, determinantal varieties, spherical varieties.
PAPERS	<i>Arcs on determinantal varieties</i> , 2010, to appear in Transactions of the AMS. <i>Jacobian discrepancies and rational singularities</i> , 2011, with T. de Fernex, to appear in the Journal of the European Mathematical Society. <i>Nash's problem for symmetric varieties</i> , in preparation. <i>Multiplier ideals on singular varieties</i> , with T. de Fernex and K. Tucker, in preparation.
INVITED TALKS	<i>Jacobian discrepancies and rational singularities</i> , 04/14/2012, WAGS, University of Washington <i>Jacobian discrepancies and rational singularities</i> , 03/31/2012, AMS Special Session, Kansas <i>Discrepancies</i> , 03/14/2012, University of Illinois at Chicago <i>Jacobian discrepancies and rational singularities</i> , 02/21/2012, Ohio State University <i>Discrepancies and Nash blowing-ups</i> , 02/08/2012, Purdue University <i>Jacobian discrepancies and rational singularities</i> , 02/08/2012, Purdue University <i>Jacobian discrepancies and rational singularities</i> , 10/23/2011, AMS Special Session, Utah <i>Arcs on determinantal varieties</i> , 04/15/2011, Brown University <i>Geometry of arcs under birational maps</i> , 11/07/2010, AMS Special Session, Notre Dame <i>Arcs on determinantal varieties</i> , 09/18/2009, University of Notre Dame <i>Arcs on determinantal varieties</i> , 09/08/2009, University of Utah <i>Arcs on determinantal varieties</i> , 12/10/2008, University of Michigan <i>Jet schemes, contact loci and singularities</i> , 03/03/2005, University of Valladolid (Spain)
LECTURE SERIES	<i>Course on valuation theory and Berkovich spaces</i> , 01/2011 – 05/2011, University of Utah
EXPOSITORY TALKS	<i>The cohomology of p-adic symmetric spaces</i> , 02/2011, University of Utah <i>Introduction to Berkovich spaces</i> , 04/2010, University of Utah <i>Introduction to G.I.T.</i> , 11/2008, University of Illinois at Chicago

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EXPOSITORY TALKS (CONT.)

Toric varieties, 01/2008 – 05/2008, University of Illinois at Chicago
Complete conics, 11/2007, University of Illinois at Chicago
The proof of resolution of singularities, 09/2006 – 12/2007, University of Illinois at Chicago
Intersection theory, 08/2005 – 01/2006, University of Illinois at Chicago
Tropical algebraic geometry and Bernstein's theorem, 04/2005, University of Illinois at Chicago
Positivity in algebraic geometry, 09/2004 – 03/2005, University of Illinois at Chicago
D-Modules and derived categories, 03/2003 – 05/2003, University of Illinois at Chicago

GRANTS AND AWARDS

Fulbright Fellowship, 08/2003 – 05/2005, Spanish-American Fulbright Commission
Master's Thesis Travel Grant, 02/2003 – 05/2003, Caixa Galicia Foundation
Scholarship for the Realization of Graduate Studies, 10/2001 – 08/2003, Xunta de Galicia
Premio Nacional de Fin de Carrera de Educación Universitaria (Mención Especial)
(National Award of University Education, Honorable Mention)
2001 – Granted by the Ministry of Education and Culture of Spain
Undergraduate Research Scholarship, 2000 – 2001, Ministry of Education and Culture of Spain

SERVICE

Referee for *Journal of Algebra* and *Journal of Algebraic Geometry*.
Co-organizer of the *School on Birational Geometry and Moduli Spaces – VIGRE Mini-course*,
June 2010, University of Utah
Co-organizer of the Algebraic Geometry Seminar at the University of Utah.

TEACHING EXPERIENCE

Foundations of Analysis II, Lecturer, Spring 2012, University of Utah
Foundations of Analysis II, Lecturer, Fall 2011, University of Utah
Special Topics in Algebraic Geometry: Course on Valuation Theory and Berkovich Spaces,
Lecturer, Spring 2011, University of Utah
Partial Differential Equations for Engineering Students, Lecturer, Spring 2011, University of Utah
Introduction to Complex Variables, Lecturer, Fall 2010, University of Utah
Calculus II, Lecturer, Spring 2010, University of Utah
Calculus I, Lecturer, Fall 2009, University of Utah
Calculus III Lab (Maple), Teaching Assistant, Fall 2008, University of Illinois at Chicago
Differential Equations, Teaching Assistant, Summer 2008, University of Illinois at Chicago
Calculus III, TA Lecturer, Spring 2008, University of Illinois at Chicago
Emerging Scholars Workshop for Calculus I, Instructor, Spring 2007, University of Illinois at Chicago
Precalculus, Teaching Assistant, Spring 2006, University of Illinois at Chicago
Precalculus, Teaching Assistant, Fall 2005, University of Illinois at Chicago

CONFERENCES ATTENDED

Western Algebraic Geometry Symposium, 04/2012, University of Washington
Singularities in Com. Algebra and Alg. Geometry, AMS Sectional Meeting, 03/2012, Univ. of Kansas

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CONFERENCES ATTENDED (CONT.)

Special Session on Algebraic Geometry, AMS Sectional Meeting, 10/2011, University of Utah
Western Algebraic Geometry Symposium, 10/2011, Colorado State University
AIM Workshop: Relating test ideals and multiplier ideals, 08/2011, AIM
2nd International Conference and Workshop on Valuation Theory, 07/2011, Segovia/El Escorial
Western Algebraic Geometry Symposium, 04/2011, Stanford University
Singularities in Algebraic Geometry, AMS Sectional Meeting, 11/2010, Univ. of Notre Dame
Summer School “Berkovich spaces”, 06/2010, Institut de Mathématiques de Jussieu, Paris
School on Birational Geometry and Moduli Spaces – VIGRE Mini-course, 06/2010, Univ. of Utah
Western Algebraic Geometry Symposium, 05/2010, University of British Columbia
Combinatorial, Enumerative and Toric Geometry, 03/2009, MSRI
Modern Moduli Theory, 02/2009, MSRI
Classical Algebraic Geometry Today, 01/2009, MSRI
Michigan-Ohio State-UIC Workshop on Algebraic Geometry, 10/2008, University of Michigan
Alg. Geometry and Commutative Alg. (Hartshorne’s 70th), 04/2008, Univ. of Illinois at Chicago
Michigan-Ohio State-UIC Workshop on Algebraic Geometry, 10/2007, University of Michigan
Algebraic Geometry Session, AMS Meeting, 10/2007, DePaul University
Hot Topics: Minimal and Canonical Models in Algebraic Geometry, 04/2007, MSRI
UIC-Purdue Workshop on Alg. Geom. and Comm. Alg., 12/2006, Purdue Univ., West Lafayette
International Congress of Mathematicians, 08/2006, Madrid
Satellite Conference on Algebraic Geometry, 08/2006, University of Valladolid (Segovia Campus)
Moduli Spaces and Arcs in Algebraic Geometry, 08/2006, University of Cologne
Recent Developments in Higher Dimensional Alg. Geom. (JAMI), 03/2006, Johns Hopkins Univ.
AMS Summer Institute in Algebraic Geometry, 07/2005 and 08/2005, University of Washington
Graduate Student Workshop for AMS Summer Inst. in Alg. Geom., 07/2005, Univ. of Washington
YMIS 2005: First Meeting for Young Mathematicians in Sedano, 02/2005, University of Valladolid
PRAGMATIC 2004: Hyperbolicity of Complex Varieties, 08/2004 and 09/2004, Univ. of Catania
Midwest Comm. Alg. and Geom. Meeting (Lipman’s fest), 05/2004, Purdue Univ., West Lafayette
Asymptotic and Effective Results in Complex Geom. (JAMI), 03/2004, Johns Hopkins University
Cohomological Methods in Algebraic Geometry, 09/2002, University of Santiago de Compostela
Seminar on Higher Algebraic Geometry, 07/2002, University of Santiago de Compostela

TECHNICAL SKILLS

Operating Systems: Unix, Linux, Microsoft Windows
 Programming Languages: FORTRAN, C, Java, Python, HTML, PHP
 Others: Sage, Mathematica, Maple, Singular, Macaulay2, \TeX , \LaTeX

LANGUAGES

Native Speaker of Spanish and Galician
 Fluent in English
 Reading skills in Portuguese, French and Italian

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REFERENCES

Aaron Bertram, University of Utah
Tommaso de Fernex, University of Utah
Lawrence Ein, University of Illinois at Chicago
Christopher Hacon, University of Utah
Mircea Mustață, University of Michigan
Henryk Hecht, University of Utah (teaching)