

CURRICULUM VITAE

RAREȘ RĂSDEACONU

COORDINATES

Einstein Institute of Mathematics
Edmond J. Safra Campus, Givat Ram
The Hebrew University of Jerusalem
Jerusalem, 91904
ISRAEL

office: (+972) 2 65 84 575
E-mail: rares@math.huji.ac.il
URL: <http://www-irma.u-strasbg.fr/~rasdeaco>

PERSONAL

Citizenship : Romanian.

POSITIONS

Postdoctoral position, Hebrew University, Jerusalem	10/01/2008-
Postdoctoral position, IRMA, Université Louis Pasteur, Strasbourg	09/01/2006-08/31/2008
Visiting position, University of Michigan (Ann Arbor)	01/01/2006-04/30/2006
Visiting position, IMADA, Univ. of Southern Denmark	09/01/2005-12/31/2005
Research Assistantship, SUNY at Stony Brook	09/01/2002-08/31/2005
Summer Research Assistantship, SUNY at Stony Brook	Summers of 2001, 2002
Teaching Assistantship, SUNY at Stony Brook	09/01/1997-08/31/2002

EDUCATION

PhD: August 2005, Stony Brook University .
Thesis: *On the topology and differential geometry of Kähler threefolds*
Thesis Advisor: C. LeBrun
BS: June 1997, University of Bucharest, Romania.
Thesis: *The cohomology of holomorphic line bundles on complex tori*
Thesis Advisor: V. Brînzănescu

RESEARCH INTEREST

Primary: Differential Geometry, Symplectic Geometry.
Secondary: Algebraic Geometry, Differential Topology

ARTICLES

- On the Kodaira dimension of diffeomorphic Kähler threefolds,
Proc. Amer. Math. Soc. 134 (2006), no. 12,
- The algebraic rational blow-down,
(joint work with I. Şuvaina), arXiv:math/0601270v1 [math.SG], submitted
- Smooth structures and Einstein metrics on $\mathbb{C}P^2\#5, 6, 7, 8\mathbb{C}P^2$, (joint work with I. Şuvaina),
accepted for publication in the Mathematical Proceedings of the Cambridge Philosophical Society,
arXiv:0806.1424v1 [math.DG]

- On Normalized Ricci Flow and Smooth Structures on Four-Manifolds with $b^+ = 1$,
(joint work with M. Ishida and I. Şuvaina), accepted for publication in Archiv der Mathematik,
arXiv:0810.2465v1 [math.DG],
- The asymptotic behavior of Welschinger invariants,
(joint work with J.Y. Welschinger), in preparation
- Relative open Gromov-Witten invariants,
(joint work with Jake Solomon), in preparation
- On rationally connected threefolds, preprint,
- On the topology and differential geometry of Kähler threefolds,
Doctoral Thesis, Stony Brook University, August 2005

SEMINAR TALKS

- Rationally connected manifolds,
Graduate Student Seminar, SUNY at Stony Brook Fall 2003
- The total scalar curvature of Kähler 3-folds,
Algebra, Geometry and Physics Seminar, SUNY at Stony Brook Fall 2003
- Curves on rationally connected manifolds,
Columbia-Stony Brook junior algebraic geometry seminar,
SUNY at Stony Brook Fall 2003
- On Kähler 3-folds of negative Kodaira dimension,
IMADA, Univ. of Southern Denmark, Odense, Denmark Fall 2005
- On Kähler 3-folds of negative Kodaira dimension,
Århus University, Århus, Denmark Fall 2005
- The algebraic rational blow-down,
Humboldt Institut für Matematik, Berlin, Germany Fall 2005
- On Kähler 3-folds of negative Kodaira dimension,
University of Michigan at Ann Arbor, USA Spring 2006
- The rational blow-down and an example of Gompf,
IRMA, Université Louis Pasteur, Strasbourg, France Fall 2006
- On unirationality of Fano hypersurfaces of index 1,
IRMA, Université Louis Pasteur, Strasbourg, France Fall 2006
- On estimations of Welschinger invariants,
University of Zürich, Zürich, Switzerland Spring 2008
- On estimations of Welschinger invariants,
IRMA, Université Louis Pasteur, Strasbourg, France Spring 2008
- The asymptotic behavior of Welschinger invariants,
Workshop at "Bernoulli Center", Lausanne, Switzerland Spring 2008
- Relative Welschinger invariants,
LMU, University of Munich, Munich, Germany Spring 2008
- The asymptotic behavior of Welschinger invariants,
Summer School in Symplectic and Real Algebraic Geometry,
École Polytechnique, Paris, France. Spring 2008
- The asymptotic behavior of Welschinger invariants,
Tel Aviv University, Tel Aviv, Israel. Fall 2008
- Absolute and relative open Gromov-Witten invariants,
IRMA, Université Louis Pasteur, Strasbourg, France Spring 2009

ATTENDED CONFERENCES AND WORKSHOPS

- Autumn School on Symplectic and Complex Analytic Methods in 4-dimensional Geometry, Bayreuth University, Bayreuth, Germany.	October	1998
- Geometry Festival “Connections in Modern Mathematics and Physics”, Stony Brook University, Stony Brook, USA.	April	1998
- Geometry Festival “Riemannian Geometry”, Stony Brook University, Stony Brook, USA.	October	1998
- Minimal Varieties in Geometry and Physics, Stony Brook University, Stony Brook, USA.	June	2002
- Short Program in Riemannian Geometry, Centre des recherches mathématiques, Université de Montréal, Canada.	June-July	2004
- XXth Annual Geometry Festival, Stony Brook University, Stony Brook, USA.	April	2005
- 2005 AMS Summer Institute on Algebraic Geometry, Washington University, Seattle, USA.	August	2005
-JAMI Conference/Workshop 2006 “Recent Developments in Higher Dimensional Algebraic Geometry”, Johns Hopkins University, Baltimore, USA.	March	2006
-Summer School in ”Moduli Spaces and Arcs in Algebraic Geometry, Köln University, Germany	August	2006
-Workshop: Real, Tropical and Complex Enumerative Geometry, Centre des recherches mathématiques, Université de Montréal, Canada.	June	2007
- Workshop on Symplectic Geometry, Contact Geometry and Interactions II, Université Libre de Bruxelles, Bruxelles, Belgium.	February	2008
-Workshop ”Tropical and symplectic aspects of real geometry”, Bernoulli Center, Lausanne, Switzerland.	March, April	2008
-Conference “Real and Tropical Algebraic Geometry”, Bernoulli Center, Lausanne, Switzerland.	June	2008
-Summer School in Symplectic and Real Algebraic Geometry, École Polytechnique, Paris, France.	July	2008
-Workshop on Symplectic Field Theory III Humboldt University, Berlin, Germany.	July	2008
- Workshop on Symplectic Geometry, Contact Geometry and Interactions III, Université de Strasbourg, Strasbourg, France.	January	2009

AWARDS

- National Merit Fellowship of the Romanian government	1992-1997
- Teaching Fellowship of the Learning Communities Program, SUNY at Stony Brook	1999
- Team Award in Math Quiz 2000, a research level interactive competition organized by the Centre de Recerca Matemàtica, Barcelona as part of the World Mathematics Year activities.	2000
- Recipient of the Departmental Fellowship Award, SUNY at Stony Brook	2004
- Member of the Mathematics Institute of the Romanian Academy	2006-

TEACHING EXPERIENCE

Teaching practicum at Nicolae Bălcescu Highschool, Bucharest, Romania	Spring	1996
Teaching assistant at SUNY at Stony Brook:		
- Lecturer and Coordinator for Mathematical Problems and Games (Mat 160)	Spring	2000
- Lecturer and Coordinator for Introduction to Analysis (Mat 320)	Summer	2001
- Lecturer and Coordinator for Calculus III with Application (MAT 203)	Summer	2002
- Lecturer and recitation instructor for various classes in Calculus A,B		
- Problem Seminar for graduate students (algebra section)	Spring	2000
- Produced material for the Learning Communities Program. An inter-disciplinary project to create and implement novel teaching techniques,	Fall	1999
-Lecturer and recitation instructor for Multivariable Calculus, IMADA, University of Southern Denmark	Fall	2005
-Lecturer and recitation instructor for Calculus B, University of Michigan at Ann Arbor	Spring	2006

REFERENCES

Eugenii Shustin
School of Mathematical Sciences
Tel-Aviv University
Tel-Aviv 69978, ISRAEL

e-mail: shustin@post.tau.ac.i

B. A. Taylor
Department of Mathematics
University of Michigan
530 Church St.
Ann Arbor, MI 48109-1043, USA

e-mail: taylor@umich.edu

Claude LeBrun
Dept of Math, SUNY at Stony Brook
Stony Brook, NY 11794-3651, USA

e-mail: claude@math.sunysb.edu

David Kazhdan
Einstein Institute of Mathematics
Edmond J. Safra Campus, Givat Ram
The Hebrew University of Jerusalem
Jerusalem, 91904, ISRAEL

e-mail: kazhdan@math.huji.ac.il

Paul Biran
School of Mathematical Sciences
Tel-Aviv University
Tel-Aviv 69978, ISRAEL

e-mail: biran@math.tau.ac.il

Viatcheslav Kharlamov
IRMA, Université Louis Pasteur
7 rue René Descartes
67084 Strasbourg Cedex, FRANCE

e-mail: kharlam@math.u-strasbg.fr

Anthony V. Phillips
Dept of Math, SUNY at Stony Brook
Stony Brook, NY 11794-3651, USA

e-mail: tony@math.sunysb..edu