

**Curriculum Vita**  
**Gideon Maschler**

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**ACADEMIC APPOINTMENTS**

Assistant Professor, Clark University, 2009-present.  
Visiting Assistant Professor, Clark University, 2008.  
Assistant Professor, Emory University, 2005-2008.  
Assistant Professor, University of Toronto, 2001-5.  
Visiting Fellowship, Max Planck Institute in Bonn, 2000.  
Visiting Assistant Professor, Ohio State University, Fall 1999.  
Post-doctoral Fellowship, Landau Center, Institute of Mathematics,  
Hebrew University of Jerusalem, 1997-9.

**EDUCATION**

Ph.D: State University of New York at Stony Brook, 1997.  
B.S.: Hebrew University of Jerusalem, 1987.  
Master and doctoral studies in Mathematics and Physics: Hebrew University of Jerusalem  
and Cornell University, 1987-1989.

**THESIS**

*Distinguished Kähler metrics and equivariant cohomological invariants.*

**GRANTS**

NSERC research grant, 2001-3.

**MISCELLANEOUS**

*PTR merit award*, University of Toronto, 2001, 2002, 2003.  
Referee for two journals.

## PUBLICATIONS

1. *Metric pairs and the Futaki character*, Int. J. Math. 13 (2002), 1-9.
2. *Central Kähler metrics*, Trans. Amer. Math. Soc. 355 (2003), 2161-2182.
3. *Central Kähler metrics with non-constant central curvature* (with A. D. Hwang), Trans. Amer. Math. Soc. 355 (2003), 2183-2203.
4. *Local classification of conformally-Einstein Kähler metrics in higher dimensions* (with A. Derdzinski), Proc. London Math. Soc. 87 (2003), 779–819.
5. *A moduli curve for compact conformally-Einstein Kähler manifolds* (with A. Derdzinski), Compositio Math. 141 (2005), 1029–1080.
6. *Special Kähler-Ricci potentials on compact Kähler manifolds* (with A. Derdzinski), J. Reine Angew. Math. 593 (2006), 73–116.
7. *Special Kähler-Ricci potentials and Ricci solitons*, Annals of Global Analysis and Geometry, Ann. Global Anal. Geom. 34 (2008), 367380.
8. *Uniqueness of Einstein metrics conformal to extremal Kähler metrics – a computer assisted approach*, thesis chapter, Special metrics and supersymmetry, de Andres, Luis Carlos (ed.) et al., AIP Conference Proceedings 1093, 132-143 (2009).
9. *Generalized Quasi-Einstein metrics on admissible manifolds*, (with C. W. Tønnesen-Friedman), to be published in Math. Scan.
10. *Conformally Kähler base metrics for Einstein warped products*, to be published in Differential Geom. Appl.

## PREPRINTS

1. *The eta invariant in the Kählerian conformally compact Einstein case*, arXiv:0805.1646, submitted, 5/2008.
2. *Kählerian functionals involving scalar curvature and holomorphy potentials*, arXiv:0804.4671.

## PLENARY CONFERENCE LECTURES

- Southeast Geometry Seminar XI*, Georgia Institute of Technology, Atlanta, USA, 5/2007.
- Short Program in Riemannian Geometry*, Centre de Recherches Mathematiques, Montreal, Canada, 6–7/2004.
- Midwest Several Complex Variables Meeting*, London, Canada, 4/2004.
- Differential Geometry in Tokyo/Tsukuba*, Japan, 12/2003.

## OTHER CONFERENCE LECTURES

- Special Session on Symplectic, Contact, and Complex Structures on Manifolds*, 2009 Fall Eastern Section Meeting of the AMS, University Park, U.S.A., 10/2009.
- Special Session on Riemannian and Lorentzian Geometries*, 2008 Fall Eastern Section Meeting of the AMS, Middletown, U.S.A., 10/2008.
- International Workshop on Geometry and Physics: Special Metrics and Supersymmetry*, Bilbao, Spain, 5/2008.
- Geometric Structures on Manifolds*, 2007 Fall Western Section of the AMS, Albuquerque, U.S.A., 10/2007.
- Midwest Geometry Conference*, Iowa City, U.S.A., 5/2007.
- Differential Geometry section*, Seventh Joint Meeting of the SMM and the AMS, Zacatecas, México, 5/2007.
- Geometry of Riemannian manifolds with additional structures*, AMS Sectional Meeting, Miami, U.S.A., 4/2006.
- Special Geometries in Mathematical Physics*, Workshop, Kühlungsborn, Germany, 3/2006.

*Interactions in Riemannian Geometry*, Fall Western Section of the AMS, Albuquerque, U.S.A., 10/2004.  
*Geometric Structures on Manifolds*, Special Session, annual meeting of the AMS, Phoenix, U.S.A., 1/2004.  
*International Conference on Differential Geometry and Quantum Physics*, Berlin, Germany, 3/2000.

## SEMINARS AND COLLOQUIA

Geometry Seminar, Northeastern University, U.S.A., 3/2010.  
Séminaire Besse, École Polytechnique, France, 6/2008.  
Differential Geometry Seminar, University of Irvine, U.S.A., 5/2007.  
University of Auckland, New Zealand, 1/2007.  
Analysis Seminar, Georgia State University, U.S.A., 2/2006.  
Colloquium, Emory University, U.S.A., 2/2005.  
Analysis and Geometry Seminar, Northeastern University, U.S.A., 12/2004.  
Geometry and Topology Seminar, University of Waterloo, Canada, 2/2004.  
CIRGET Differential Geometry and Topology Seminar, Université du Québec à Montréal, Canada, 1/2004.  
Colloquium, Instituto de Física y Matemáticas, Universidad Michoacana, Mexico, 8/2003.  
Symplectic Geometry Seminar, University of Toronto, Canada, 4/2003.  
Geometry Seminar, Stanford University, U.S.A., 3/2003.  
Geometry and Topology Seminar, McMaster University, Canada, 1/2003.  
Symplectic Geometry Seminar, University of Toronto, Canada, 3/2002.  
CIRGET Differential Geometry and Topology Seminar, Université du Québec à Montréal, Canada, 3/2001.  
Symplectic Geometry Seminar, University of Toronto, Canada, 1/2001.  
M.P.I.-Oberseminar, Max Planck Institute in Bonn, Germany, 8/2000.  
Analysis and Geometry Seminar, Ohio State University, U.S.A., 10/1999.  
University of Aarhus, Denmark (two lectures), 5/1999.  
Sfb 288, Technische Universität Berlin, Germany, 5/1999.  
Humboldt Universität zu Berlin, Germany (two lectures), 4/1999.  
Technion and University of Haifa joint Geometry and Topology Seminar, Israel, 3/1999.  
Several Complex Variables Seminar, University of Toronto, Canada, 2/1999.  
Landau Center Special Lecture, Hebrew University, Israel, 11/1998.  
Jerusalem Topology and Geometry Seminar, Hebrew University, Israel, 2/1998.

## GRADUATE AND UNDERGRADUATE LECTURES

Undergraduate Lecture: Union College, New York, 3/2007.  
Graduate Lecture: Instituto de Física y Matemáticas, Universidad Michoacana, Morelia, Mexico, 8/2003.

## RESEARCH WORKSHOPS AND CONFERENCES – INVITED PARTICIPATION

*Kähler and Differential Geometry*, Conference, Vanderbilt University, Nashville, Tennessee, 9/2010.  
*Extremal Kaehler metrics*, International Research Station for Mathematical Innovation and Discovery, Banff, Canada, 6-7/2009.  
*Extremal Kähler metrics and stability*, ICMS Conference, Edinburgh, U.K., 7/2006.  
*XIIIth Southern California Geometric Analysis Seminar*, Irvine, California, 1/2006.  
*Moment Maps in various Geometries*, International Research Station for Mathematical Innovation and Discovery, Banff, Canada, 5/2005.

*Conference on Differential Geometry in honour of Paul Gauduchon*, École Polytechnique, Palaiseau, France, 5/2005.

*Midwest Geometry Conference*, Columbus, Ohio, U.S.A., 4–5/2005.

*Conformal Geometry*, International Research Station for Mathematical Innovation and Discovery, Banff, Canada, 7–8/2004.

*Von Neumann Symposium on Complex Geometry, Calibrations, and Special Holonomy*, Mathematical Sciences Research Institute, Berkeley, U.S.A., 8/2003.

## TEACHING AND CURRICULUM DEVELOPMENT

### Graduate courses

*Functional Analysis*, Spring 2006.

*Differential Geometry*, Fall 2006 and Spring 2007.

*Complex Manifolds*, Spring 2002.

*General Relativity* (also advanced undergraduate), Spring 2004.

### Undergraduate courses

#### Advanced level

*Algebra I,II*, Fall 2003, Spring 2004 (second year).

#### Intermediate level

*Topology*, Spring 2010, (second and third year).

*Modern Analysis*, Spring 2009, (second year).

*Introduction to Analysis*, Fall 2008-9, (second year).

*Differential Geometry*, Spring 2007 (third year).

*Complex Variables*, Fall 2000, Fall 2001 (third year).

*Groups and Symmetries*, Fall 2002 (third year).

*Introduction to Real Analysis*, Spring 2005 (third year).

*Introduction to Ordinary Differential Equations*, Spring 2003 and Fall 2007, included use of symbolic and graphing software facilities (second year).

*Calculus!*, Fall 2000-Spring 2001 (first year).

#### Fundamental level or Engineering course

*Diving into Research: Geometry*, Fall 2009 and Spring 2010.

*Calculus* Fall 2008-9, Spring 2010 (first year) - in part using software.

*Calculus II*, (multivariable), Fall 2001-Spring 2002, Fall 2004-Spring 2005, Fall 2006, Fall 2007, Spring 2008 (second year).

*Linear Algebra I*, Spring 2003 (second year).

*Calculus and Differential Equations*, Fall 2003, (second year).

*Linear Algebra*, Fall 2002 and Spring 2006 (first year).

*Calculus 2*, Spring 2001 and Fall 2005 (first year).