

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

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**CITIZENSHIP**

Dual: Israel and U.S.A.

**ACADEMIC APPOINTMENTS**

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**

State University of New York at Stony Brook, Ph.D., 1997,  
thesis: “*Distinguished Kähler Metrics and Equivariant  
Cohomological Invariants*”, advisor: Claude LeBrun.  
Cornell University, one year of graduate studies, completed 1990.  
Hebrew University of Jerusalem, Master studies in Mathematics  
and Physics, B.S. also in Computer Science, all completed 1989.

**RESEARCH INTERESTS**

Complex Differential Geometry.  
Special Structures on Manifolds.

**GRANTS**

NSERC research grant, 2001-3.

**PLENARY CONFERENCE LECTURES**

*Short Program in Riemannian Geometry*, Centre de Recherches Mathématiques,  
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**

*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**

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 Fisica y Matematicas, 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.

## **RESEARCH WORKSHOP INVITATIONS**

*Moment Maps in various Geometries*, International Research Station for Mathematical Innovation and Discovery, Banff, Canada, 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.

## **MISCELLANEOUS**

*PTR merit award*, University of Toronto, 2001, 2002, 2003.

Referee: *Communications in Mathematical Physics*, *Rocky Mountain Journal of Mathematics*.

Coordinator: *Jerusalem Topology and Geometry Seminar*, 1998.

## PUBLICATIONS AND PREPRINTS

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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. *Special Kähler-Ricci potentials on compact Kähler manifolds* (with A. Derdzinski), accepted, J. Reine Angew. Math., 11/2003, 45 pp.
6. *A moduli curve for compact conformally-Einstein Kähler manifolds* (with A. Derdzinski), accepted, Compositio Math., 7/2004, 50 pp.
7. *Asymptotically hyperbolic Einstein metrics which are conformally Kähler*, preprint.
8. *Kählerian functionals involving scalar curvature and holomorphy potentials*, preprint.
9. *Degenerate holomorphic localization on complex surfaces* (with Y. Karshon), preprint.
10. *Toric actions on compact Kähler manifolds* (with A. Derdzinski), preprint.
11. *Compact Ricci solitons* (with A. Derdzinski), preprint.