

**EUGENIE HUNSICKER
BIOGRAPHICAL DATA**

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EDUCATION

Ph. D.	University of Chicago	1999
M. Sc.	University of Chicago	1993
B. A.	Haverford College, Haverford, PA	1992
	Magna Cum Laude, high departmental honors	
exchange	Oxford University, Oxford, UK	1991
	Phi Beta Kappa	1991

EMPLOYMENT

2005-present	Associate Professor of Mathematics, Lawrence University.
1999-2005	Assistant Professor of Mathematics, Lawrence University.
1994-1998	Lecturer in Mathematics, University of Chicago.
1993-1994	Teaching Assistant, University of Chicago.

PAPERS

2005	E. Hunsicker, "Hodge and Signature theorems for a family of manifolds with fibration boundary," preprint.
2005	E. Hunsicker, R. Mazzeo, "Hodge cohomology for edge metrics", to appear, <i>International Mathematics Research Notices</i> .
2002	T. Hausel, E. Hunsicker, R. Mazzeo, "Hodge cohomology for gravitational instantons," <i>Duke Mathematical Journal</i> , vol 122, no. 3, 2004.
2001	E. Hunsicker, L. Taalman, "Simplicity is not Simple: Tessellations and Modular Architecture," <i>Math Horizons</i> , September 2002.
2002	E. Hunsicker, " L^2 harmonic forms for a class of complete Kähler metrics," <i>Michigan Mathematical Journal</i> , 50, (2002).

GRANTS AND AWARDS

2005	American partner on a Centre National De La Recherche Scientifique research grant, "Analysis and geometry on asymptotically symmetric spaces"
2004	National Science Foundation Research Opportunity Award: grant for a researcher at an undergraduate institution to pursue research as a visiting scientist with an NSF-supported researcher at another institution
2004	Rotary Cutting Edge Award: for educators who have made significant contributions in the development and advancement of teaching and learning methods for the benefit of the community and our quality of life, joint recipient with Prof. Karen Nordell
2003	Trevor Evans Award: for an expository article published in Math Horizons, for "Simplicity is not Simple", co-authored with L. Taalman
2003	Fox Valley Community Fund, Women's Fund grant to support creation of PRYSM math and science mentoring program for girls, together with Prof. Karen Nordell
2000	Mortarboard Honorary Award, Lawrence University
1998-1999	American Dissertation Year Fellowship, American Association of University Women

- 1997 Physical Sciences Division Teaching Prize, University of Chicago College Division of the Physical Sciences
- 1996 Lawrence and Josephine Graves Prize in Teaching, University of Chicago Department of Mathematics
- 1992 Runner-up, AWM Alice T. Schafer Prize

SERVICE

- 2005 Reviewer, American Journal of Mathematics.
- 2004-present Coordinator, Lawrence University Science Hall Colloquium
- 2004 Conference co-organizer, " L^2 -harmonic forms in geometry and string theory", ARCC, Stanford, CA.
- 2003-present Coordinator, Lawrence University Math Tea Talks
- 2002-present Co-founder and co-director of PRYSM math and science mentoring program for girls and minorities.
- 2002 Co-organizer, joint Stanford-Berkeley spring seminar on compactifications.
- July 2001 Co-organizer of Project NExT panel, Mathfest, "Effective Use of the Web in Teaching."

PROFESSIONAL EXPERIENCE

- 2004 Summer Visiting Scholar, Department of Mathematics, Stanford University.
- 2001-2002 Visiting Scholar, Department of Mathematics, Stanford University.
- 2001 MSRI workshop, "Geometric Scattering Theory and Elliptic Theory on Noncompact and Singular Spaces"
- 2000-2001 Project NExT fellow, Mathematical Association of America
- 2000 Visiting Scholar, Department of Mathematics, Stanford University, July-August.
- 1995 Summer Seminar on *Gauge Field Theory and Symplectic Geometry*, University of Montreal, Montreal, Canada, July 3-15.
- 1994 IAS/Park City summer institute on *Gauge Field Theory and Donaldson Invariants*, Park City, Utah, July.
- 1994 IAS/Park City spring course for women attending summer institute, IAS, Princeton, NJ, May.
- 1991 Mathematica shareware package "Posets" co-authored with Prof. Curtis Greene, Haverford College

TALKS

- 2005 Conference on Analysis and Geometric Singularities, "Interpolating Hodge and Signature Theorems," Mathematisches Forschungsinstitute Oberwolfach
- 2005 Universität Bonn, geometry seminar, "Introduction to L^2 " Hodge theorems and intersection cohomology"
- 2005 Université de Nantes colloquium, " L^2 Hodge theorems between cones and cusps"
- 2005 AMS western regional meeting at UC Santa Barbara, special section on geometry and physics, invited talk "Ideal boundary conditions, intersection cohomology and Leray spectral sequences
- 2005 University of Kansas, geometry seminar, "Harmonic Forms, Leray spectral sequences and Intersection Cohomology
- 2004 AMS Midwest Sectional Meeting, special session on Geometric Partial Differential Equations, invited talk, "Ideal Boundary Conditions and Intersection Cohomology
- 2003 Workshop on analysis and resolution of singularities, "Hodge Cohomology of Gravitational Instantons," Université de Québec Montréal

- 2003 Ohio State University, geometric analysis seminar, “ L^2 Hodge and signature theorems for manifolds with fibred boundaries”
- 2003 University of Michigan, geometry seminar, “Hodge Theorems for fibred cusp and fibred boundary metrics”
- 2003 University of Wisconsin, Madison, geometry seminar, “ L^2 -hodge theorems for fibred cusp and fibred boundary metrics”
- 2003 St. Louis University departmental colloquium, “Hodge theorems for noncompact manifolds”
- 2003 St. Louis University topology seminar, “Introduction to L^2 Hodge theorems”
- 2002 Conference on Partial Differential Equations on Noncompact Manifolds, at Penn State, invited talk, “ L^2 Hodge theorems for manifolds with fibration boundaries”
- 2002 University of Texas, Austin, Geometry Seminar, “An introduction to L^2 -cohomology”
- 2002 University of Chicago Geometry Seminar, “ L^2 Hodge theorems and intersection cohomology”
- 2002 Stanford-Berkeley joint seminar on compactifications, “Constructions and asymptotics of noncompact Ricci-flat and hyperkähler metrics”
- 2000 AMS Eastern Sectional Meeting, Special Session on Riemannian Manifolds and their Limit Spaces, invited talk, “A sheaf perspective on L^2 harmonic forms”
- 2000 Mortarboard Society First Chance Lecture, “What is Non-Euclidean Geometry?”
- 2000 AWM workshop at Washington meetings, “An introduction to L^2 -cohomology, or, when is a noncompact manifold almost compact?”
- 1999 CUNY Topology Seminar, “ L^2 -Hodge Theory of Noncompact Manifolds”

REFERENCES

Gilles Carron, Professor of Mathematics, Université de Nantes

Rafe Mazzeo, Professor of Mathematics, Stanford University

Leslie Saper, Professor of Mathematics, Duke University

Bruce Pourciau, Professor of Mathematics, Lawrence University (Teaching Reference)