Curriculum Vitae

Personal Information:

Name: **Hamid Hezari**

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Work Address: 3400 N. Charles Street, Department of Mathematics, Johns Hopkins University, Baltimore, MD 21218

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Education:

Pursuing Ph.D. in Mathematics. Johns Hopkins University, Baltimore, MD, 2004 to 2009
Advisor: Steve Zelditch

Continuing studies in Mathematics as a Ph.D. student. Simon Fraser University, Vancouver, Canada, 2004

M.Sc. in Mathematics. Sharif University, Tehran, Iran, 2003

B.Sc. in Mathematics. Sharif University, Tehran, Iran, 2001

Research:

Research Interests: I am interested in PDE's on Riemannian manifolds and the effects of the geometry of the manifold on the solutions. I am also interested in Differential Geometry and Mathematical Physics.

Honors and Awards:

Winner of the William Kelso Morril Teaching Award of Excellence in the Teaching of Mathematics, Department of Mathematics, Johns Hopkins University, 2008

Best entering graduate student award from Simon Fraser University, Vancouver, 2003

Gold medal in Sixth International Scientific Olympiad in Mathematics, Iran 2001

Ranked second out of 3000 senior undergraduate students in mathematics competition, 2001

Publications:

1. *Complex zeros of eigenfunctions of 1D Schrödinger operators.* International Mathematics Research Notices (2008) Vol. 2008: article ID rnm148.

2. *Inverse Spectral problems for Schrödinger operators.* To be Published in Communications in Mathematical Physics. arXiv:0801.3283.

3. (With Steve Zelditch) *Inverse Spectral Problems for real analytic domains in* $\mathbb{R}^n$. Preprint.

Talks:

Inverse Spectral Problems for real analytic domains in $\mathbb{R}^n$. University of Chicago, October 2008.

Asymptotics of the Bergman kernels. Complex Geometry Seminar, Johns Hopkins University, September 2008.

Inverse Spectral Problems for Schrödinger operators. Short informal talk at the Clay Math Summer School, July 2008.

Inverse Spectral Problems for Schrödinger operators and real analytic domains in $\mathbb{R}^n$. The conference "Mathematical aspects of Quantum Chaos" at University of Montreal, June 2008.

Asymptotics of the Bergman kernels. Complex Geometry Seminar, Johns Hopkins University, Spring 2008.

Can one hear the shape of a drum? University of Florida, March 2008.

Inverse Spectral Problems for Schrödinger operators. The AMS meeting in San Diego, January 2008.

Wave invariants and inverse spectral problems, Analysis Seminar, Johns Hopkins University, Fall 2007.

Complex zeros of eigenfunctions. Analysis Seminar, Johns Hopkins University, Spring 2006.

Two lectures on *Complex zeros of eigenfunctions.* Complex Geometry Seminar, Johns Hopkins University, Spring 2005.

Three lectures on *Kähler-Einstein metrics and Futaki invariants.* Complex Geometry Seminar, Johns Hopkins University, Spring 2005.

Teaching Experiences:

Instructor at Johns Hopkins University: Linear Algebra, Summer 2006; Putnam Problem Solving, Fall 2007 and Fall 2008.

Teaching Assistant at Johns Hopkins University: Honors Calculus 1, Fall 2008; Analysis, Spring 2008; Differential Equations, Fall 2007; Analysis, Fall 2005; Calculus 1, Fall 2005; Honors Calculus 3, Spring 2005; Calculus 1 for Biology, Fall 2004.

Teaching Assistant at Simon Fraser University, Canada: Calculus 1, Fall 2003 and Spring 2004. Number Theory, Summer 2004.

Instructor at Sharif University of Technology, Iran: Algebraic Geometry, Fall 2002.

Teaching Assistant at Sharif University of Technology, Iran: Algebra 1, 2 and 3, Number Theory, Complex Analysis for engineers.

Organizing Activities:

Organizer of the Complex Geometry Seminars, Johns Hopkins University, Spring 2008.

Organizer of the Slow Pitch Seminars, Johns Hopkins University, Fall and Spring 2005.

Other Interests: History of math, Music, Soccer, Traveling.

References:

Steve Zelditch, Johns Hopkins University
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Maciej Zworski, University of California, Berkeley
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Bernard Shiffman, Johns Hopkins University
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Richard Brown, Johns Hopkins University (concerns teaching)
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