ParulLaul

Assistant Professor, Mathematics

Contact

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Research Interests

General relativity, Partial Differential Equations, Mathematical Physics

Education

2006–2011   **PhD** in Mathematics   University of North Carolina, Chapel Hill
Localized Energy Estimate for Solutions to the Wave Equation on the $(n+1)$-dimensional Schwarzschild Manifold
Advisor: Dr. Jason Metcalfe

2005–2006   **Masters** in Mathematics   University of Toronto
Symmetry in Mechanics
Advisor: Dr. Yael Karshon

2001–2005   **Bachelors** in Mathematics and Biochemistry   University of Toronto

Academic Employment

2013–Now   **Bronx Community College, Department of Mathematics**   New York, New York
Assistant Professor

2012–2013   **Drexel University, Department of Mathematics**   Philadelphia, Pennsylvania
Visiting Assistant Professor

2011–2012   **University of Cambridge, DPMMS**   Cambridge, United Kingdom
Post-doctoral Research Fellow

2006–2011   **University of North Carolina, Department of Mathematics**   Chapel Hill, North Carolina
Graduate Teaching Assistant

Pre-Prints and Publications

Localized energy estimates for wave equations on $(1+4)$-dimensional Myers-Perry space-times. SIAM J. Math. Anal. *47.3 (2015) pp. 1933–1957. 2015*
Parul Laul, Jason Metcalfe, Shreyas Tikare, Mihai Tohaneanu

Localized energy estimates for wave equations on high-dimensional Schwarzschild space-times. Proc. Amer. Math. Soc. *140.9 (2012) pp. 3247–3262. 2012*
Parul Laul, Jason Metcalfe

Talks

May 2015   Department Research Seminar, (Mathematics)   Pomona College
Nov. 2013   Department Research Seminar, (Mathematics and Computer Science)
Bronx Community College, CUNY

Mar. 2012   Analysis Seminar, (Mathematics)   University of Edinburgh
Oct. 2011   Geometric Analysis and Partial Differential Equations Seminar, (DPMMS)
University of Cambridge

Jul. 2011	International Congress on Industrial & Applied Mathematics	Vancouver, Canada
Jan. 2011	Ohio River Analysis Meeting, (Mathematics)	University of Cincinnati
Nov. 2010	Scattering Theory Seminar, (Mathematics)	Purdue University
Oct. 2010	Analysis Seminar, (Mathematics)	Northwestern University
Sep. 2010	Analysis/PDE Seminar, (Mathematics)	University of North Carolina
Sep. 2010	Analysis Applied Math Seminar, (Mathematics)	University of Toronto
Mar. 2010	Graduate Student Analysis Seminar, (Mathematics)	University of North Carolina
Sep. 2009	GMA Visions Seminar, (Mathematics)	University of North Carolina
Aug. 2008	Graduate Student Analysis Seminar, (Mathematics)	University of North Carolina

Poster Presentations

May 2014	Faculty Day	Bronx Community College, CUNY
Jul. 2011	Women in Mathematics Workshop (International Congress on Industrial & Applied Mathematics)	Vancouver, Canada
Feb. 2011	Women in Mathematics Symposium	Institute for Pure and Applied Mathematics, UCLA

Research Supervision

Spring 2015	NYC Louis Stokes Alliance for Minority Participation (Undergraduate Research Project)	Bronx Community College, CUNY

Courses Taught

MATH01	Fundamental Concepts and Skills in Arithmetic and Algebra: (F2013)	
		Bronx Community College, CUNY
MATH05	Elementary Algebra: (F2014, S2014)	Bronx Community College, CUNY
MATH23	Probability and Statistics: (F2013, F2015)	Bronx Community College, CUNY
MATH30	Pre-Calculus: (F2014)	Bronx Community College, CUNY
MATH31	Analytic Geometry and Calculus I: (F2013)	Bronx Community College, CUNY
MATH33	Analytic Geometry and Calculus III: (F2015)	Bronx Community College, CUNY
MATH42	Linear Algebra: (S2015)	Bronx Community College, CUNY
MATH123	Calculus III: (F2012, W2013)	Drexel University
MATH201	Linear Algebra: (S2013)	Drexel University
MATH285	Differential Equations II: (S2013)	Drexel University
MATH323	Partial Differential Equations: (W2013)	Drexel University
MATH231	Calculus I - Functions of One Variable I: (Su2007, F2007, Su2008, Su2009)	
		University of North Carolina
MATH232	Calculus II - Functions of One Variable II: (S2008, F2008, S2009, F2009, F2010)	
		University of North Carolina
MATH233	Calculus III - Multivariable Calculus: (S2010, Su2010)	University of North Carolina
MATH521	Advanced Calculus: (Su2011)	University of North Carolina

Honours, Grants and Scholarships

2014, 2015	PSC-CUNY Research Award	City University of New York
2014	BCC Presidential Teaching Grant	City University of New York
2010	Future Faculty Fellowship Award	University of North Carolina
2009, 2010	Lottie Wilson Fund Scholarship	University of North Carolina
2005	City of Toronto Graduate Scholarship	University of Toronto
2004	NSERC Summer Research Assistantship Award	University of Toronto
2004	New College Raptors Foundation In Course Scholarship	University of Toronto
2003	New College Council Scholarship	University of Toronto
2002	New College Rhea V. Scott Scholarship	University of Toronto
2002	S. and W. Gollop Memorial Scholarship in Chemistry	University of Toronto

Conferences Attended

Jun. 2015	Nonlinear Wave Equations and Their Numerical Study	Fields Institute, Toronto Canada
Mar. 2015	AMS Central Spring Sectional Meeting	Michigan State University
Mar. 2014	Council on Undergraduate Research Summit for State Systems and Consortia	Alexandria, Virginia
Apr. 2012	27th Annual Geometry Festival	Duke University
Jul. 2011	SIAM International Congress on Industrial & Applied Mathematics	Vancouver, Canada
Jun. 2011	CBMS Global Harmonic Analysis Conference	Kentucky University
Mar. 2011	JAMI Analysis of PDEs Conference	John Hopkins University
Feb. 2011	Women in Mathematics Symposium	University of California, Los Angeles
Jan. 2011	Ohio River Analysis Meeting	University of Cincinnati
Apr. 2010	Spring's Rivière Fabes Symposium	University of Minnesota
Sep. 2009	Hot Topics: Black Holes in Relativity	MSRI, University of Berkeley
Jun. 2009	Nonlinear Waves and Dispersion	Poincaré Institute, Paris, France
Jan. 2009	Carolina Meeting on Harmonic Analysis and PDE	University of North Carolina
Jul. 2008	The 3rd Symposium on Analysis and PDEs	Purdue University
May. 2007	Women and Mathematics	IAS, Princeton University
Jun. 2006	Summer Graduate Workshop, Mathematical Aspects of Computational Biology	MSRI, University of Berkeley
Jun. 2005	PIMS-MITACS Mathematical Biology Summer Workshop	University of Alberta

Memberships

2013-Now	American Mathematics Society	Bronx Community College, CUNY
2006-2001	Association of Women in Mathematics, (UNC Student Chapter)	University of North Carolina

Service

2015-Now	Department Senate Representative (alternate)	Bronx Community College, CUNY
2015-Now	WebWork Committee	Bronx Community College, CUNY
2014-Now	Math Meetings Co-Organizer	Bronx Community College, CUNY
2014-Now	Open Source Textbooks Committee	Bronx Community College, CUNY
2014-Now	Academic Advisement	Bronx Community College, CUNY
Spring 2015	MATH05 CEAFE Committee	Bronx Community College, CUNY
2014	Open Source Textbooks Committee	Bronx Community College, CUNY
2013-Now	Probability and Statistics Course Committee	Bronx Community College, CUNY
2013-2014	Remediation Committee	Bronx Community College, CUNY
Fall 2013	Exam Study-a-Thon Tutoring	Bronx Community College, CUNY