

CURRICULUM VITAE

Pankaj Vishe

CONTACT INFORMATION	Department of Mathematics Durham University, Durham-DH1 3LE United Kingdom	<i>Phone: Work</i> +44 191 334 3077 <i>Phone: Fax</i> +44 191 334 3051 <i>E-mail:</i> pankaj.vishe@durham.ac.uk <i>webpage:</i> http://www.maths.dur.ac.uk/users/pankaj.vishe/
EMPLOYMENT	Durham University Assistant Professor in Pure Mathematics	10-2015- Present.
	University of York Postdoctoral research associate	02-2013- 10-2015.
	KTH, Stockholm Göran Gustafsson postdoc with Par Kurlberg	09/2011 - 01-2013.
	MPIM, Bonn Visiting researcher	01/2011-08/2011.
	EPFL Visiting researcher with Philippe Michel	09/2010-12/2010.
UNIVERSITY EDUCATION	Ph.D. New York University Pure Mathematics (Advisor - Akshay Venkatesh)	07/2010.
	M.Math.(Hons.) Indian Statistical Institute, Bangalore, India Grade: 80% aggregate with Distinction.	06/2005
	B.Math.(Hons.) Indian Statistical Institute, Bangalore, India Grade: 83% aggregate with Distinction.	06/2003
RESEARCH INTERESTS	My research interests are in Analytic Number Theory, Diophantine Geometry, Dynamics on Homogeneous spaces, Computational number theory, and interplay between them.	
PUBLICATIONS	<i>A pair of quadrics in \mathbb{P}^8 over $\mathbb{F}_q(t)$.</i> , in preparation. (with Oscar Marmon), <i>Quartic forms in 29 variables</i> , in preparation. (With Andreas Strömbergsson), <i>An effective equidistribution result for $SL(2, \mathbb{R}) \ltimes (\mathbb{R}^2)^{\oplus k}$ and application to inhomogeneous quadratic forms</i> , submitted, arXiv:1811.10340.. (with Oscar Marmon), <i>On the Hasse Principle for quartic hypersurfaces</i> , accepted for publication at Duke Math Journal. (With Tim Browning), <i>Rational curves on smooth hypersurfaces of low degree</i> , Algebra and Number Theory 11 (2017), 1657-1675. (With Alex Gorodnik), <i>Simultaneous Diophantine approximation — logarithmic improvements</i> , Transactions of the American Mathematical Society., 370 (1). pp. 487-507. (With Tim Browning), <i>Cubic hypersurfaces over $\mathbb{F}_q(t)$</i> , GAFA 25 (2015), 671-732. (With James Tanis), <i>Uniform bounds for period integrals and sparse equidistribution</i> , Int Math Res Notices, 2015(24): 13728-13756. (With Tim Browning), <i>A version of the circle method over number fields</i> , Duke Math. J. 163 (2014), no. 10, 1825-1883.	

A fast algorithm to compute $L(1/2, f \times \chi_q)$, Journal of Number Theory, Vol. 133, No. 5, 05.2013, p. 1502-1524.

Rapid computation of L-functions for modular form, Int Math Res Notices, vol 2013, no. 11, pp. 2624-2656., 10.1093/imrn/rns112.

PHD STUDENTS	Mr. Matthew Northey (current).	
ADMIN DUTIES	Head of the departmental Equality and Diversity committee, Durham University	Fall 2018-Present.
	Member of the departmental Athena Swan committee, Durham University	Fall 2017-Present.
	Organiser of the Arithmetic Study Group, Durham,	Spring 2018-Present.
	Organiser of Number theory seminar, University of York,	Spring 2014-Summer 2015.
TEACHING AND ACADEMIC RESPONSIBILITIES	Algebra II, Durham	Fall 2018.
	Codes and Cryptography III, Durham	Spring 2018.
	Algebra II, Durham	Fall 2017.
	Codes and Cryptography III, Durham	Spring 2017.
	Number Theory III/IV, Durham	Fall 2016.
	Representation theory III/IV, Durham	Fall 2015.
	Functional Analysis, University of York (main instructor)	Fall 2014.
	Co-ordinator of the Number theory study group, University of York,	2014-2015.
	Functional Analysis, University of York (main instructor)	Fall 2013.
	Co-ordinator of the DNA seminar, KTH,	01/2012-01/2013.
	Short lecture series on Introduction to the circle method, KTH	Nov 2011.
	Short lecture series on Algorithms to compute L -functions, EPFL	Nov 2010.
	Complex analysis (grader) NYU	Spring 2009.
	Real analysis 2 (grader). NYU	Fall 2008.
	Q.R.: Math patterns in nature (main instructor) NYU	Spring 2008.
	Q.R.: Probability, statistics and decision making. (TA) NYU	Fall 2007.
	Q.R.: Probability, statistics and decision making (TA) NYU	Spring 2007.
	Q.R.: Elementary statistics (TA) NYU	Fall 2006
	Calculus for social sciences (TA) NYU	Spring 2006.

AWARDS,
FELLOWSHIPS

Henry McCracken fellowship- full Ph.D. Fellowship, New York University, 06/2005-06/2010.
 Batch topper for M. Math (Hons.), 2005.
 Full tuition waiver with stipend, Indian Statistical Institute, 2000/2005.
 Batch topper for B. Math (Hons.), 2003.
 Visiting Student, Tata Institute of Fundamental Research, Mumbai, 07/2002, 2003 and 08/ 2004.

SELECTED TALKS

Number theory seminar, ETH Zurich, 04/2019.
 Algebraic geometry and number theory seminar, IST Vienna, 03/2019.
 London number theory seminar, UCL, London, 02/2019.
 Number theory seminar, Shandong University, Jinan, 12/2018.
 Westlake Number Theory Colloquium, Hangzhou, 12/2018.
 Number Theory and Function Fields Workshop, Exeter, 12/2018.
 Rational points conference, BIRS Oaxaca, Mexico, 05/2018.
 Number theory seminar, Warwick, 02/2018.
 Diamant Symposium, Amsterdam, 11/2017.
 Dynamics Seminar, Manchester, 02/2017.
 Analysis seminar, Cardiff, 11/2016.
 Departmental Colloquium, IISER Kolkata, 09/2016.
 Departmental Colloquium, ISI Kolkata, 09/2016.
 Undergraduate Colloquium, James Madison University, 04/2016.
 Number theory seminar, OSU, 04/2016.
 BMC 2016, Bristol, 03/2016.
 Number theory Seminar, Manchester 02/2016.
 Dynamics seminar, Tata Institute 01/2016.
 Pure maths Colloquium, Durham, 12/2015.
 Journee Arithmetic, Debrecen, 07/2015.
 Quantitative Arithmetic, Mittag Leffler, 06/2015.
 One day ergodic meeting, Bristol, 06/2015.

Number theory seminar, Oxford,	05/2015.
Number theory seminar, Copenhagen University,	03/2015.
Departmental Colloquium, Tata Institute,	08/2014.
Dynamics and Numbers, MPIM,	07/2014.
Group actions in Number Theory, Cambridge University,	06/2014.
Number theory seminar, King's College,	05/2014.
Dynamics seminar, University of Exeter,	02/2014.
Dynamics seminar, Tel Aviv university,	01/2014.
Mathematics seminar, University of Maynooth,	12/2013.
Dynamics seminar, University of Bristol,	05/2013.
SAVANT, Oxford,	09/2012.
The II Finnish-Swedish number theory conference, Oulu,	05/2012.
Linfoot seminar, University of Bristol,	05/2012.
Dynamics and Number theory seminar, KTH,	01/2012 and 04/2012.
Representation theory seminar, TIFR, Mumbai,	05/2011.
Number theory lunchtime seminar, MPIM, Bonn,	04/2011.
Dynamics seminar, University of Bristol,	03/2011.
Number theory seminar, University of Koln,	01/2011.
Algebra and number theory seminar, EPFL,	09/2010.
Analytic number theory seminar, Stanford University,	11/2009 and 03/2009.
Automorphic forms and L-functions: computational aspects, CRM,	07/2009.
IST, Vienna,	03/2019.
Shanghai University,	12/2018.
Chalmers University Goteborg,	07/2017.
ISI Kolkata,	09/2016.
Copenhagen University,	07/2016.
James Madison University,	04/2016.

SELECTED
RESEARCH VISITS

	Ohio State University,	04/2016.
	Copenhagen University,	03/2015.
	EPFL, Lausanne,	11/2014.
	Dynamics and Numbers, MPIM, Bonn,	07/2014.
	Group Actions in Number Theory, Cambridge,	06/2014.
	University of Bristol,	03/2011, 05/2012, 05/2013, 09/2013, 02/2014, 05/2015.
	Arithmetic and Dynamics, IAS, Jerusalem,	01/2014.
	University of Maynooth, Maynooth,	12/2013.
	Arithmetic and Geometry, Hausdorff Institute, Bonn,	04/2013.
SELECTED CONFERENCES AND PROGRAMS ATTENDED	Westlake Number Theory Colloquium, Hangzhou,	12/2018.
	Number Theory and Function Fields Workshop, Exeter,	12/2018.
	Riemann Hypothesis conference, Bristol,	06/2018.
	Rational points conference, BIRS Oaxaca, Mexico,	05/2018.
	Diamant Symposium, Amsterdam,	11/2017.
	Analytic number theory, Oberwolfach,	11/2016.
	BMC 2016,	04/2016.
	Journee Arithmetic, Debrecen,	07/2015.
	Quantitative Arithmetic, Mittag Leffler,	06/2015.
	One day ergodic meeting, Bristol,	06/2015.
	Diophantine approximations and Transcendence, CIRM, Luminy,	09/2014.
	Summer school in Analytic Number Theory, IHES, Paris,	07/2014.
	Royal society meeting, Chicheley,	05/2014.
	Workshop on interactions between number theory and wireless communication, York,	05/2014.
	Dynamics and Analytic Number Theory, Durham,	04/2014.
	KIAS Summer School on Homogeneous dynamics, KIAS,	06/2013.
	SAVANT, Oxford,	09/2012.
The II Finnish-Swedish number theory conference, Oulu,	05/2012.	

International Colloquium on Automorphic Representations and L-Functions, TIFR,	01/2012.
Arbeitsgemeinschaft, Oberwolfach,	09/2011.
Mathematische Arbeitstagung 2011, MPIM, Bonn,	06/2011.
Group Actions in Number Theory: winter workshop, CIB, Lausanne,	01/2011.
Exponential sums over finite fields and applications, ETHZ,	11/2010.
Arizona Winter School: Number theory and Dynamics,	03/2010.
Computer Methods for L-functions and Automorphic Forms, CRM, Montreal,	03/2010.
Relative trace formula and periods of automorphic forms, AIM,	08/2009
SMS 2009, Automorphic forms and L-functions: computational aspects , CRM, Montreal	06/2009.
Introduction to ergodic theory and additive combinatorics, MSRI	08/2008.
Analytic number theory and higher rank groups, CIMS,	05/2008.
CMI summer school, Homogeneous flows, moduli spaces and arithmetic, CRM, Pisa,	06/2007.
2006/2007 Clay lectures on mathematics : Cambridge University,	12/2006.