Contact and Personal Information

Department of Mathematics	E-mail: jparks@kth.se
KTH Royal Institute of Technology	Citizenship: Canadian
Lindstedtsvägen 25	Date of Birth: January 20, 1985
SE-100 44 Stockholm	

Professional Experience

04/2016-	Postdoctoral Researcher, KTH Royal Institute of Technology
10/2015-03/2016	Research Scientist, Leibniz Universität Hannover
09/2013 - 08/2015	PIMS Postdoctoral Fellow, University of Lethbridge

Education

2009-2013	Ph.D.	Mathematics	Concordia University, Montreal, Quebec
2007-2009	M.Sc.	Mathematics	Simon Fraser University, Burnaby, British Columbia
2003-2007	B.Sc.	Mathematics	Dalhousie University, Halifax, Nova Scotia

Ph.D. Thesis Advisor: Dr. Chantal David

Ph.D. Thesis Title: The average number of amicable pairs and aliquot cycles for a family of elliptic curves

M.Sc. Thesis Advisor: Dr. Jason Bell

M.Sc. Thesis Title: A Dixmier-Moeglin equivalence for skew-Laurent polynomial rings

Research Publications

- 1. (with A. Akbary) On the Lang-Trotter Conjecture for two elliptic curves. (in preparation)
- 2. An asymptotic for the average number of amicable pairs (with an appendix by S. Giri). (submitted)
- 3. (with D. Fiorilli and A. Södergren) Low-lying zeros of quadratic Dirichlet *L*-functions. *Compos. Math.*, to appear.
- (with D. Fiorilli and A. Södergren) Low-lying zeros of elliptic curve L-functions: Beyond the ratios conjecture. Math. Proc. Cambridge Philos. Soc. 160 (2016), no. 2, 315–351.
- 5. A remark on elliptic curves with a given number of points over finite fields. SCHOLAR-a scientific celebration highlighting open lines of arithmetic research, 165–179, Contemp. Math., 655, Amer. Math. Soc., Providence, RI, 2015.

- Amicable pairs and aliquot cycles on average. Int. J. Number Theory 11 (2015), no. 6, 1751–1790.
- 7. (with C. David and D.K. Huynh) One-level density of families of elliptic curves and the Ratios Conjectures. *Res. Number Theory* 1 (2015), 1:6.

Presentations

- 2016 CMS Summer Meeting, Edmonton, Alberta, June 25, 2016
- Canadian Number Theory Association XIV Meeting, Calgary, Alberta, June 20, 2016
- GANITA Conference, Toronto, Ontario, June 14, 2016
- 27th Nordic Congress of Mathematicians, Stockholm, Sweden, March 18, 2016
- Göttingen-Hannover Number Theory Workshop, Göttingen, Germany, December 7, 2015
- Oberseminar Zahlentheorie, Hannover, Germany, October 14, 2015
- Alberta Number Theory Days VII, Banff, Alberta, June 14, 2015
- 2015 CMS Summer Meeting, Charlottetown, Prince Edward Island, June 6, 2015
- Number Theory Seminar, Copenhagen, Denmark, May 15, 2015
- Number Theory and Combinatorics Seminar, Lethbridge, Alberta, November 10, 2014
- Canadian Number Theory Association XIII Meeting, Ottawa, Ontario, June 20, 2014
- 2014 CMS Summer Meeting, Winnipeg, Manitoba, June 7, 2014
- Alberta Math Dialogue 2014, Camrose, Alberta, May 1, 2014
- Alberta Number Theory Days VI, Banff, Alberta, April 19, 2014
- Number Theory and Combinatorics Seminar, Lethbridge, Alberta, April 7, 2014
- Workshop: Frobenius distributions on curves, Luminy, France, February 27, 2014
- Number Theory and Combinatorics Seminar, Lethbridge, Alberta, November 18, 2013
- Analytic Number Theory Seminar, Montreal, Quebec, March 28, 2013

- CMS Winter Meeting, Number Theory Satellite Session, Montreal, Quebec, December 6, 2012
- Canadian Number Theory Association XII Meeting, University of Lethbridge, June 21, 2012

Conferences Attended

- N^3 -days IV, Copenhagen, Denmark, June 3-4, 2016
- Analytic aspects of number theory, Zurich, Switzerland, May 18-22, 2015
- Analysis, Spectra and Number Theory, Princeton, New Jersey, December 15-19, 2014
- Summer School: Counting Arithmetic Objects, Montreal, Quebec, June 23-July 4, 2014
- Workshop: Frobenius distributions on curves, Luminy, France, February 24-28, 2014
- Winter School: Frobenius distributions on curves, Luminy, France, February 17-21, 2014
- SCHOLAR in honour of Professor M. Ram Murty's mathematical legacy on his 60th birthday, Montreal, Quebec, October 15-17, 2013
- 2013 Joint Mathematics Meetings, San Diego, California, January 9-12, 2013
- CMS Winter Meeting, Number Theory Satellite Session, Montreal, Quebec, December 6-7, 2012
- Mathematical Research Communities: Arithmetic Statistics, Snowbird, Utah, June 24-30, 2012

Honors and Awards

PIMS Postdoctoral Fellowship September 2013.

Concordia Accelerator Award October 2012.

Teaching Experience

• Instructor, Advanced Number Theory (MATH 4461), University of Lethbridge, Winter 2015

- Instructor, Calculus IV (MATH 2580), University of Lethbridge, Fall 2014
- Teaching Assistant, Mathematical Concepts (MATH 2000), University of Lethbridge, Winter 2014
- Teaching Assistant, Calculus II (MATH 2560), University of Lethbridge, Winter 2014
- Teaching Assistant, Calculus I (MATH 1560), University of Lethbridge, Fall 2013
- Instructor, Elementary Functions (MATH 201), Concordia University, Fall, Winter 2012
- Instructor, Algebra and Functions (MATH 206), Concordia University Summer, Winter 2010

Other Professional Experiences & Skills

• Math and Statistics Graduate Students Association VP Finance, Concordia University, 2010-2013