

CURRICULUM VITAE (JANUARY 2020 – 13 PAGES)

WILLIAM D. BANKS

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Education

- 1982–1986 B.S. Mathematics, California Institute of Technology, Pasadena, CA
Undergraduate advisor: Tom Apostol
- 1989–1994 Ph.D. Mathematics, Stanford University, Stanford, CA
Dissertation: “Exceptional representations on the metaplectic group”
Graduate advisor: Daniel Bump

Academic Appointments

- 1994–1996 Centre Interuniversitaire en Calcul Mathématique Algébrique,
Montréal, QC Canada (on leave Spring 1995)
Postdoctoral Fellow
- Spring 1995 Mathematical Sciences Research Institute, Berkeley, CA
Postdoctoral Fellow
- 1996–1998 Oklahoma State University, Stillwater, OK
Postdoctoral Fellow
- 1998–Present University of Missouri, Columbia, MO
Postdoctoral Fellow, 1998
Assistant Professor, 2000
Associate Professor, 2003
Professor, 2007

Research Interests

Analytic and algebraic number theory, representation theory, cryptography.

Additional Work Experience

- 1986–1987 Computer Programmer, AeroVironment, Inc., Monrovia, CA
1987–1989 Computer Programmer, Sungene Technologies, Milpitas, CA

RESEARCH

Early Work in Biotechnology

- M. Gupta, F. D. Park, B. Hoo, M. Frome, D. Zaitlin, Y.-S. Chyi, W. D. Banks and P. Filner, “Identification of RFLP markers for the *Ht1* gene by comparison of inbreds and their *Ht1*-conversions,” *Maize Genet. Coop.* **63** (1989), 112.
- Y.-S. Chyi, M. Gupta, M. Frome, F. D. Park, B. Hoo, D. Zaitlin, W. D. Banks, J. Perkins and P. Filner, “Identification of RFLP markers for the *rhm* gene,” *Maize Genet. Coop.* **63** (1989), 112–113.

Publications

- (1) “The Casselman-Shalika formula for a distinguished model,” *Proc. Amer. Math. Soc.* **123** (1995), no. 3, 681–692.
- (2) “Twisted symmetric-square L-functions and the nonexistence of Siegel zeros on $GL(3)$,” *Duke Math. J.* **87** (1997), no. 2, 343–353.
- (3) “Heredity of Whittaker models on the metaplectic group,” *Pacific J. Math.* **185** (1998), no. 1, 89–96.
- (4) “A corollary to Bernstein’s theorem and Whittaker functionals on the metaplectic group,” *Math. Res. Lett.* **5** (1998), 781–790.
- (5) with J. Levy and M. Sepanski, “Block-compatible metaplectic cocycles,” *J. Reine Angew. Math.* **507** (1999), 131–163.
- (6) with D. Lieman and I. Shparlinski, “An identification scheme based on sparse polynomials,” in *Public Key Cryptography, Third International Workshop on Practice and Theory in Public Key Cryptography, PKC2000 (Melbourne)*, Lecture Notes in Comput. Sci. **1751**, Springer-Verlag, Berlin (2000).
- (7) with F. Griffin, D. Lieman and I. Shparlinski, “Nonlinear complexity of the Naor-Reingold pseudo-random function,” in *Proceedings of ICISC’99 (Seoul)*, Lecture Notes in Comput. Sci. **1787**, Springer-Verlag, Berlin (2000).
- (8) with D. Lieman and I. Shparlinski, “An extremely small and efficient identification scheme,” in *Proceedings of ACISP2000 (Brisbane)*, Lecture Notes in Comput. Sci. **1841**, Springer-Verlag, Berlin (2000).
- (9) with D. Lieman, I. Shparlinski and V. To, “Cryptographic applications of sparse polynomials over finite rings,” in *Proceedings of ICISC2000 (Seoul)*, Lecture Notes in Comput. Sci. **2015**, Springer-Verlag, Berlin (2001).
- (10) with D. Bump and D. Lieman, “On the dimension of the Jacquet module of a certain induced representation,” in *Ideal Theoretic Methods in Commutative Algebra*, Lecture Notes in Pure and Applied Math. **220**, Marcel Dekker, Inc., New York (2001).

Publications (cont'd)

- (11) “Some unusual identities for special values of the Riemann zeta function,” *Ramanujan J.* **5** (2001), no. 2, 153–157.
- (12) with I. Shparlinski, “Distribution of inverses in polynomial rings,” *Indag. Math. (N.S.)* **12** (2001), no. 3, 303–315.
- (13) with I. Shparlinski, “On the number of sparse RSA exponents,” *J. Number Theory* **95** (2002), no. 2, 340–350.
- (14) with I. Shparlinski, “Average normalisations of elliptic curves,” *Bull. Austral. Math. Soc.* **66** (2002), 353–358.
- (15) with A. Conflitti and I. Shparlinski, “Character sums over integers with restricted g -ary digits,” *Illinois J. Math.* **46** (2002), no. 3, 819–836.
- (16) with D. Bump and D. Lieman, “Whittaker-Fourier coefficients of metaplectic Eisenstein series,” *Compositio Math.* **135** (2003), no. 2, 153–178.
- (17) with A. Harcharras, S. Neuwirth and E. Ricard, “Matrix inequalities with applications to the theory of iterated kernels,” *Linear Algebra Appl.* **362** (2003), 275–286.
- (18) with I. Shparlinski, “A variant of NTRU with non-invertible polynomials,” in *Progress in Cryptology – Indocrypt 2002*, Lecture Notes in Comput. Sci. **2551**, Springer-Verlag, Berlin (2003).
- (19) with A. Harcharras and I. Shparlinski, “Short Kloosterman sums for polynomials over finite fields,” *Canad. J. Math.* **55** (2003), 225–246.
- (20) with A. Harcharras, “New examples of noncommutative $\Lambda(p)$ sets,” *Illinois J. Math.* **47** (2003), 1063–1078.
- (21) with A. Conflitti, J. Friedlander and I. Shparlinski, “Exponential sums over Mersenne numbers,” *Compositio Math.* **140** (2004), 15–30.
- (22) with A. Conflitti and I. Shparlinski, “Number theoretic designs for directed regular graphs of small diameter,” *SIAM J. Discrete Math.* **17** (2004), no. 3, 377–383.
- (23) with A. van der Poorten, “Squares from products of integers,” *Austral. Math. Soc. Gaz.* **31** (2004), no. 1, 40–42.
- (24) with I. Shparlinski, “Congruences and exponential sums with the Euler function,” in *High primes and misdemeanours: lectures in honour of the 60th birthday of Hugh Cowie Williams*, 49–59, Fields Inst. Commun. **41**, Amer. Math. Soc., Providence, RI, 2004.
- (25) with J. Friedlander, C. Pomerance and I. Shparlinski, “Multiplicative structure of values of the Euler function,” in *High primes and misdemeanours: lectures in honour of the 60th birthday of Hugh Cowie Williams*, 29–47, Fields Inst. Commun. **41**, Amer. Math. Soc., Providence, RI, 2004.

Publications (cont'd)

- (26) with I. Shparlinski, “Arithmetic properties of numbers with restricted digits,” *Acta Arith.* **112** (2004), no. 4, 313–332.
- (27) with A. Harcharras, “On the norm of an idempotent Schur multiplier on the Schatten class,” *Proc. Amer. Math. Soc.* **132** (2004), no. 7, 2121–2125.
- (28) with A. Harcharras and I. Shparlinski, “Smooth values of shifted primes in arithmetic progressions,” *Michigan Math. J.* **52** (2004), no. 3, 603–618.
- (29) with D. Hart and M. Sakata, “Almost all palindromes are composite,” *Math. Res. Lett.* **11** (2004) nos. 5-6, 853–868.
- (30) with R. Heath-Brown and I. Shparlinski, “On the average value of divisor sums in arithmetic progressions,” *Int. Math. Res. Not.* **2005**, no. 1, 1–25.
- (31) with F. Luca, “Concatenations with binary recurrent sequences,” *J. Integer Seq.* **8** (2005), no. 1, Article 05.1.3, 18 pp. (electronic)
- (32) with F. Luca, I. Shparlinski and H. Stichtenoth, “On the value set of $n!$ modulo a prime,” *Turkish J. Math.* **29** (2005), 169–174.
- (33) with F. Luca and I. Shparlinski, “Irrationality of power series for various number theoretic functions,” *Manuscripta Math.* **117** (2005), no. 2, 183–197.
- (34) with F. Luca, F. Saidak and I. Shparlinski, “Values of arithmetical functions equal to a sum of two squares,” *Quart. J. Math. Oxford Ser.* **56** (2005), 123–139.
- (35) with F. Luca, “Nonaliquots and Robbins numbers,” *Colloq. Math.* **103** (2005), 27–32.
- (36) with K. Ford, F. Luca, F. Pappalardi and I. Shparlinski, “Values of the Euler function in various sequences,” *Monatsh. Math.* **146** (2005), 1–19.
- (37) with F. Luca, F. Saidak and P. Stănică, “Compositions with the Euler and Carmichael functions,” *Abh. Math. Sem. Hamburg* **75** (2005), 215–243.
- (38) with M. Garaev, F. Luca and I. Shparlinski, “Uniform distribution of the fractional part of the average prime divisor,” *Forum Math.* **17** (2005), no. 6, 885–901.
- (39) “Towards faster cryptosystems, II,” in *Public Key Cryptography*, Proceedings of Symposia in Pure Mathematics, **62**, American Mathematical Society, 2005.
- (40) with F. Luca, “Roughly squarefree values of the Euler and Carmichael functions,” *Acta Arith.* **120** (2005), 211–230.
- (41) with I. Shparlinski, “Prime divisors of palindromes,” *Period. Math. Hungar.* **51** (2005), 1–10.
- (42) with F. Luca and I. Shparlinski, “Some divisibility properties of the Euler function,” *Glasgow Math. J.* **47** (2005), no. 3, 517–528.

Publications (cont'd)

- (43) with G. Harman and I. Shparlinski, “Distributional properties of the largest prime factor,” *Michigan Math. J.* **53** (2005), 665–681.
- (44) with F. Luca and I. Shparlinski, “On certain sums related to multiple divisibility by the largest prime factor,” *Ann. Sci. Math. Québec* **29** (2005), no. 2, 131–145.
- (45) with F. Luca and I. Shparlinski, “Arithmetic properties of $\varphi(n)/\lambda(n)$ and the structure of the multiplicative group modulo n ,” *Comment. Math. Helv.* **81** (2006), no. 1, 1–22.
- (46) with J. Friedlander, S. Konyagin and I. Shparlinski, “Incomplete character sums and Diffie–Hellman triples,” *Math. Proc. Cambridge Philos. Soc.* **140** (2006), 193–206.
- (47) with J. Friedlander, F. Luca, F. Pappalardi and I. Shparlinski, “Coincidences in the values of the Euler and Carmichael functions,” *Acta Arith.* **122** (2006), no. 3, 207–234.
- (48) with I. Shparlinski, “Non-residues and primitive roots in Beatty sequences,” *Bull. Austral. Math. Soc.* **73** (2006), 433–443.
- (49) with F. Luca, “On integers with a special divisibility property,” *Arch. Math. (Brno)* **42** (2006), 31–42.
- (50) with I. Shparlinski, “Multiplicative character sums with the g -ary sum of digits function,” *Ramanujan J.* **11** (2006), no. 2, 215–219.
- (51) with J. Friedlander, M. Garaev and I. Shparlinski, “Double character sums over elliptic curves and finite fields,” *Pure Appl. Math. Q.* **2** (2006), no. 1, 179–197.
- (52) with I. Shparlinski, “Short character sums with Beatty sequences,” *Math. Res. Lett.* **13** (2006), 539–547.
- (53) with J. Friedlander, M. Garaev and I. Shparlinski, “Character sums with exponential functions over smooth numbers,” *Indag. Math. (N.S.)* **17** (2006), no. 2, 157–168.
- (54) with F. Pappalardi, “Values of the Euler function free of k -th powers,” *J. Number Theory* **120** (2006), no. 2, 326–348.
- (55) with I. Shparlinski, “Congruences and rational exponential sums with the Euler function,” *Rocky Mountain J. Math.* **36** (2006), 1415–1426.
- (56) with F. Luca and I. Shparlinski, “Common divisors of the Euler function at related arguments,” *Acta Sci. Math. (Szeged)* **72** (2006), no. 3-4, 525–536.
- (57) with I. Shparlinski, “Average value of the Euler function on binary palindromes,” *Bull. Pol. Acad. Sci. Math.* **54** (2006), no. 2, 95–101.
- (58) with I. Shparlinski, “Prime divisors of Beatty sequences,” *J. Number Theory* **123** (2007), no. 2, 413–425.
- (59) with F. Luca and I. Shparlinski, “On rough and smooth neighbours,” *Rev. Mat. Complut.* **20** (2007), no. 1, 109–118.

Publications (cont'd)

- (60) with I. Shparlinski, “On values taken by the largest prime factor of shifted primes,” *J. Aust. Math. Soc.* **82** (2007), 133–147.
- (61) with I. Shparlinski, “Integers with a large smooth divisor,” *Integers* **7** (2007), A17, 11 pp. (electronic)
- (62) with F. Luca, “Sums of prime divisors and Mersenne numbers,” *Houston J. Math.* **33** (2007), no. 2, 403–413 (electronic).
- (63) with F. Luca, “When the sum of aliquots divides the totient,” *Proc. Edinb. Math. Soc.* **50** (2007), 563–569.
- (64) with F. Luca, “Composite integers n for which $\varphi(n) \mid n - 1$,” *Acta Math. Sinica, English Series* **23** (2007), no. 10, 1915–1918.
- (65) with M. Sakata and F. Saidak, “Kloosterman sums for modified van der Corput sequences,” *Uniform Distribution Theory* **2** (2007), no. 1, 39–52.
- (66) with F. Luca and I. Shparlinski, “Estimates for Wieferich numbers,” *Ramanujan J.* **14** (2007), no. 3, 361–378.
- (67) with A. Güloğlu and W. Nevans, “Representations of integers as sums of primes from a Beatty sequence,” *Acta Arith.* **130** (2007), no. 3, 255–275.
- (68) with I. Shparlinski, “Exponential sums with polynomial values of the discrete logarithm,” *Uniform Distribution Theory* **2** (2007), no. 2, 67–72.
- (69) with M. Garaev, R. Heath-Brown and I. Shparlinski, “Density of non-residues in Burgess-type intervals and applications,” *Bull. London Math. Soc.* **40** (2008), 88–96.
- (70) with A. Güloğlu and W. Nevans, “On the congruence $n \equiv a \pmod{\varphi(n)}$,” *Integers* **8**(1) (2008), A59, 8 pp. (electronic)
- (71) with A. Güloğlu, W. Nevans and F. Saidak, “Descartes numbers,” in *Anatomy of Integers*, 167–174, American Mathematical Society, Providence R.I., 2008.
- (72) with S. Balasuriya and I. Shparlinski, “Congruences and exponential sums with the sum of aliquot divisors function,” *Int. J. Number Theory* **4** (2008), no. 6, 903–909.
- (73) with F. Luca and J. Friedlander, “Integers without divisors from a fixed arithmetic progression,” *Forum Math.* **20** (2008), no. 6, 1005–1037.
- (74) with A. Abercrombie and I. Shparlinski, “Arithmetic functions on Beatty sequences,” *Acta Arith.* **136** (2009), 81–89.
- (75) with I. Shparlinski, “Character sums with Beatty sequences on Burgess-type intervals,” in *Analytic Number Theory: Essays in Honour of Klaus Roth*, Cambridge University Press, 2009.

Publications (cont'd)

- (76) “Carmichael numbers with a square totient,” *Canad. Math. Bull.* **52**(1) (2009), 3–8.
- (77) with M. Garaev, F. Luca and I. Shparlinski, “Uniform distribution of fractional parts related to pseudoprimes,” *Canad. J. Math.* **61** (2009), no. 3, 481–502.
- (78) with D. Hart, P. Moree and W. Nevans, “The Nicolas and Robin inequalities with sums of two squares,” *Monatsh. Math.* **157** (2009), 303–322.
- (79) with A. Güloğlu, “Values of the Carmichael function equal to a sum of two squares,” *Turkish J. Math.* **33** (2009), no. 1, 9–16.
- (80) with I. Shparlinski, “Prime numbers with Beatty sequences,” *Colloq. Math.* **115** (2009), no. 2, 147–157.
- (81) with F. Luca and L. Szalay, “A variant on the notion of Diophantine s -tuples,” *Glasg. Math. J.* **51** (2009), no. 1, 83–89.
- (82) with I. Shparlinski, “Sato–Tate, cyclicity, and divisibility statistics on average for elliptic curves of small height,” *Israel J. Math.* **173** (2009), 253–277.
- (83) with I. Shparlinski, “Multiplicative character sums with twice-differentiable functions,” *Q. J. Math.* **60** (2009), no. 4, 401–411.
- (84) with W. Nevans and C. Pomerance, “A remark on Giuga’s conjecture and Lehmer’s totient problem,” *Albanian J. Math.* **3** (2009), no. 2, 81–85.
- (85) with I. Shparlinski, “Sums with convolutions of Dirichlet characters,” *Manuscripta Math.* **133** (2010) no. 1, 105–114.
- (86) with C. Pomerance, “On Carmichael numbers in arithmetic progressions,” *J. Aust. Math. Soc.* **88** (2010), 313–321.
- (87) with A. Güloğlu and W. Nevans, “On primitive Dirichlet characters and the Riemann hypothesis,” *J. Number Theory* **130** (2010), no. 3, 574–579.
- (88) with D. Covert, “Sums and products with smooth numbers,” *J. Number Theory* **131** (2011), no. 6, 985–993.
- (89) with F. Luca, “Power totients with almost primes,” *Integers* **11A** (2011), Article 4, 7 pp. (electronic)
- (90) with A. Yeager, “Carmichael numbers composed of primes from a Beatty sequence,” *Colloq. Math.* **125** (2011), no. 1, 129–137.
- (91) with F. Pappalardi and I. Shparlinski, “On group structures realized by elliptic curves over arbitrary finite fields,” *Experiment. Math.* **21** (2012), no. 1, 11–25.
- (92) with J. Friedlander, M. Garaev and I. Shparlinski, “Exponential and character sums with Mersenne numbers,” *J. Aust. Math. Soc.* **92** (2012), 1–13.

Publications (cont'd)

- (93) with S. Kang, “On repeated values of the Riemann zeta function on the critical line,” *Experiment. Math.* **12** (2012), no. 2, 132–140.
- (94) “Carmichael numbers with a totient of the form $a^2 + nb^2$,” *Monatsh. Math.* **167** (2012), no. 2, 157–163.
- (95) with R. Baker, J. Brüdern, I. Shparlinski and A. Weingartner, “Piatetski-Shapiro sequences,” *Acta Arith.* **157** (2013), no. 1, 37–68.
- (96) with V. Castillo-Garate, L. Fontana and C. Morpurgo, “Self-intersections of the Riemann zeta function on the critical line,” *J. Math. Anal. Appl.* **406** (2013), no. 2, 475–481.
- (97) with G. Martin, “Optimal primitive sets with restricted primes,” *Integers* **13** (2013), A69, 10 pp. (electronic)
- (98) with A. Güloğlu and A. Yeager, “Carmichael meets Chebotarev,” *Canad. Math. Bull.* **56** (2013), no. 4, 695–708.
- (99) with A. Güloğlu and R. Vaughan, “Waring’s problem for Beatty sequences and a local to global principle,” *J. Théor. Nombres Bordeaux* **26** (2014), no. 1, 1–16.
- (100) with R. Baker, V. Guo and A. Yeager, “Piatetski-Shapiro primes from almost primes,” *Monatsh. Math.* **174** (2014), no. 3, 357–370.
- (101) with C. Finch, F. Luca, C. Pomerance and P. Stănică, “Sierpiński and Carmichael numbers,” *Trans. Amer. Math. Soc.* **367** (2015), no. 1, 355–376.
- (102) with T. Freiberg and C. Turnage-Butterbaugh, “Consecutive primes in tuples,” *Acta Arith.* **167** (2015), no. 3, 261–266.
- (103) with R. Baker, “Character sums with Piatetski-Shapiro sequences,” *Q. J. Math.* **66** (2015), no. 2, 393–416.
- (104) “Every natural number is the sum of forty-nine palindromes,” *Integers* **16** (2016), A3, 9 pp. (electronic)
- (105) with T. Freiberg, “Carmichael numbers and the sieve,” *J. Number Theory* **165** (2016), 15–29.
- (106) with V. Guo and I. Shparlinski, “Some arithmetic properties of numbers of the form $[p^c]$,” *Indag. Math. (N.S.)* **27** (2016), 423–436.
- (107) with I. Shparlinski, “Fractional parts of Dedekind sums,” *Int. J. Number Theory* **12** (2016), no. 5, 1137–1147.
- (108) with I. Shparlinski, “On Gauss sums and the evaluation of Stechkin’s constant,” *Math. Comp.* **85** (2016), no. 301, 2569–2581.

Publications (cont'd)

- (109) with T. Freiberg and J. Maynard, “On limit points of the sequence of normalized prime gaps,” *Proc. Lond. Math. Soc. (3)* **113** (2016), no. 4, 515–539.
- (110) with K. Makarov, “Convolutions with probability distributions, zeros of L -functions, and the least quadratic nonresidue,” *Funct. Approx. Comment. Math.* **55** (2016), no. 2, 243–280.
- (111) with V. Guo, “Quadratic nonresidues below the Burgess bound,” *Int. J. Number Theory* **13** (2017), no. 3, 751–759.
- (112) with I. Shparlinski, “On coincidences among quadratic fields generated by the Shanks sequence,” *Quart. J. Math. Oxford Ser.* **68** (2017), 465–484.
- (113) “Non-vanishing of Dirichlet series without Euler products,” *Hardy-Ramanujan J.* **40** (2017), 31–42.
- (114) “Zeta functions and asymptotic additive bases with some unusual sets of primes,” *Ramanujan J.* **45** (2018), 57–71.
- (115) “On certain zeta functions associated with Beatty sequences,” *Acta Arith.* **185** (2018), no. 3, 233–247.
- (116) with V. Guo, “Consecutive primes and Beatty sequences,” *J. Number Theory* **191** (2018), 158–174.
- (117) with J. Friedlander, C. Pomerance and I. Shparlinski, “Counting integers with a smooth totient,” *Quart. J. Math.* **70** (2019), 1371–1386.
- (118) with P. Pollack and C. Pomerance, “Symmetric primes revisited,” *Integers* **19** (2019), A54, 7 pp. (electronic)
- (119) with I. Shparlinski, “Sums with the Möbius function twisted by characters with powerful moduli,” *Trans. Amer. Math. Soc.* **373** (2020), no. 1, 249–272.

Accepted Papers

- (120) with I. Shparlinski, “Bounds on short character sums and L -functions for characters with a powerful modulus,” to appear in *J. Anal. Math.*
- (121) with I. Shparlinski, “Congruences with intervals and arbitrary sets,” to appear in *Arch. Math. (Basel)*

Submitted Manuscripts

- (122) with K. Ford and T. Tao, “Large prime gaps and probabilistic models,” submitted to *Invent. Math.*

PROFESSIONAL ACTIVITIES

Teaching Experience

Stanford University, Stanford, CA
Single and Multivariable Calculus
Linear Algebra

Concordia University, Montréal, QC (Canada)
Linear Algebra
Differential Equations

Oklahoma State University, Stillwater, OK
Single and Multivariable Calculus
Applications of Modern Mathematics

University of Missouri, Columbia, MO
Finite Mathematics
Introduction to Calculus (Primary Instructor/Course Coordinator)
Advanced Calculus
Multivariable Calculus
Linear Algebra
Representation Theory
Automorphic Forms
Introduction to Cryptography
Introduction to Analytic Number Theory
Advanced Analytic Number Theory
Advanced Algebraic Number Theory
Riemann Zeta Function
Exponential Sums
Development of Prime Number Theory

Teaching Award

Provost Outstanding Junior Faculty Teaching Award, 2003.

Grants and Fellowships

MSRI Postdoctoral Fellowship (5 months), 1995.
NSF grant “Metaplectic forms and cryptography,” 2000–2004.
UM Research Board grant “New directions in analytic number theory,” 2016–2017.

Memberships

American, Australian and Canadian Mathematical Societies.

Advising and Mentoring

Undergraduate

Dylan Cooper, 2002.
Benjamin Schulz, 2002.
Michael Deutsch, 2003.
Sheraun Howard, 2003.

Graduate

Mark Budden, 2000–2003.
Larry Ellis, 2000–2001.
Stephen Boul, 2000.
Steven Shattuck, 2000.
Derrick Hart, 2002.
Adriano Marzullo, 2004–2006.
Valeria D’Orazio, 2004–2006.
Wesley Nevans, 2005–2010.
Mike Pemberton, 2009.
Josiah Roelfsema, 2010.
Justin Jackson, 2010–2011.
John Hammond, 2011–2012.
Aaron Yeager, 2010–2013.
Victor Castillo, 2011–2013.
Matthew Davis, 2012–2013.
Alexandra Archer, 2015–2016.
Robert Biggs, 2015–2016.
Zhenyu Guo, 2011–2016.

Postdoctoral

Mayumi Sakata, 2001–2004.
Filip Saidak, 2003–2005.
Ahmet Güloğlu, 2005–2008.
Tristan Freiberg, 2013–2015.

Masters Thesis Advisor

Stephen Boul, 2001.
Mike Pemberton, 2009.
Josiah Roelfsema, 2010.
Justin Jackson, 2011.
John Hammond, 2012.
Aaron Yeager, 2012.
Alexandra Archer, 2016.
Robert Biggs, 2016.

Ph.D. Thesis Advisor

Mark Budden, 2003.
Wesley Nevans, 2010.
Zhenyu Guo, 2016.

Invited Lectures

- Fall 1993 Purdue University Colloquium
- Spring 1994 Texas Christian University Colloquium
- Fall 1994 Vermont-Québec Number Theory Seminar (Montréal)
- Spring 1995 Mathematical Sciences Research Institute
- Fall 1995 Vermont-Québec Number Theory Seminar (Montréal)
- Spring 1996 Université Laval Colloquium
- Spring 1996 AMS Meeting in Iowa City
- Spring 1996 University of Toronto Colloquium
- Fall 1996 Oklahoma State University Colloquium
- Fall 1997 Missouri Algebra Weekend
- Spring 1999 Arts and Sciences Week Special Lecture (UM-Columbia)
- Spring 1999 Vermont-Québec Number Theory Seminar (Montréal)
- Spring 1999 Automorphic Forms Workshop in Santa Barbara
- Summer 1999 Macquarie University Colloquium (Sydney)
- Summer 1999 Vermont-Québec Number Theory Seminar (Montréal)
- Fall 1999 Midwest Arithmetical Geometry in Cryptography Workshop
- Fall 1999 University of Iowa Colloquium
- Fall 1999 ICISC'99 Conference in Cryptography (Seoul)
- Spring 2000 Baylor University Colloquium
- Spring 2000 PKC2000 Conference in Cryptography (Melbourne)
- Spring 2000 Graduate Student Seminar (UM-Columbia)
- Spring 2000 AMS Meeting in Santa Barbara
- Summer 2000 ACISP2000 Conference in Cryptography (Brisbane)
- Fall 2000 ICISC2000 Conference in Cryptography (Seoul)
- Spring 2001 Automorphic Forms Workshop in Mountain View
- Fall 2001 Macquarie University Colloquium (Sydney)
- Fall 2001 Australian Mathematical Society Meeting (Canberra)
- Fall 2001 Georgia Institute of Technology Colloquium
- Fall 2002 Workshop on Algebraic and Complexity-Theoretical
Methods in Cryptology (Bochum)
- Spring 2003 AMS Short Course on Public Key Cryptography (Baltimore)
- Summer 2003 Number Theory Conference in Honour of Professor H.C. Williams (Banff)
- Fall 2003 36th National Congress of the Mexican Mathematical Society (Pachuca)
- Spring 2004 Universidad Nacional Autónoma de México Colloquium (Morelia)
- Spring 2004 Macquarie University Colloquium (Sydney)
- Fall 2004 37th National Congress of the Mexican Mathematical Society (Ensenada)
- Spring 2005 ArithmeTexas 2005 (College Station)
- Spring 2005 Universidad Nacional Autónoma de México Colloquium (Morelia)
- Fall 2005 Conférence de Théorie Analytique des Nombres (Québec)
- Spring 2006 Vermont-Québec Number Theory Seminar (Montréal)
- Spring 2006 Anatomy of Integers Conference (Montréal)
- Spring 2006 Italian-Polish Number Theory Days (Poznań)
- Fall 2007 INTEGERS Conference (Univ. of West Georgia)

Invited Lectures (cont'd)

Spring 2008	Analytic Number Theory (Oberwolfach)
Spring 2009	Algebra and Number Theory Seminar (Penn State)
Fall 2009	INTEGERS Conference (Univ. of West Georgia)
Spring 2011	Number Theory Seminar (Brigham Young Univ.)
Fall 2011	INTEGERS Conference (Univ. of West Georgia)
Spring 2012	BYU Focus on Math (Brigham Young Univ.)
Summer 2012	60th Birthday Conference for Daniel Bump (Stanford Univ.)
Fall 2012	Midwest Number Theory Day (Univ. of Illinois U-C)
Summer 2013	Möbius Talk (Ursinus College)
Fall 2013	Math Coffee Seminar (Davidson College)
Fall 2013	PANTS XX Conference (Davidson College)
Spring 2014	Number Theory Seminar (Brigham Young Univ.)
Summer 2014	Bateman/Halberstam Conference (Univ. of Illinois U-C)
Summer 2015	70th Birthday Conference for Carl Pomerance (Univ. of Georgia)
Spring 2016	60th Birthday Conference for Igor Shparlinski (CIRM Luminy)
Summer 2016	UNSW Number Theory Seminar (UNSW Sydney)
Summer 2016	University of New South Wales Colloquium (UNSW Sydney)
Fall 2016	Duke Number Theory Seminar (Duke University)
Fall 2016	UIUC Number Theory Seminar (Univ. of Illinois U-C)
Fall 2017	UIUC Number Theory Seminar (Univ. of Illinois U-C)
Fall 2017	Graduate Student Seminar (Univ. of Illinois U-C)
Fall 2019	UIUC Number Theory Seminar (Univ. of Illinois U-C)