

Dec. 8, 2015

Guoniu HAN
Institut de Recherche Mathématique Avancée
UMR 7501, Université de Strasbourg et CNRS
7, rue René Descartes
67084 Strasbourg
Tel.: 0033-368850267
guoniu.han@unistra.fr

CURRICULUM VITAE

Last name: Han
First name: Guoniu
Date of birth: February 5, 1965
Place of birth: Hubei, China
Citizenship : French

Education

B. Sc., Department of Mathematics, Wuhan University, China, 1987
M. Sc., Department of Mathematics, University of Strasbourg, France, 1988
Ph.D., Department of Mathematics, University of Strasbourg, France, advisor: Dominique Foata, 1992
HDR (Habilitation for professorship), Department of Mathematics, University of Strasbourg, France, 2001

Employment

1990–1991: Graduate Assistant. Mathematics, University of Strasbourg
1991–1993: Full time ATER (Graduate Teaching and Research Assistant), Mathematics, University of Strasbourg
1993–1997: Associate scientist 2nd class at the French National Center for Scientific Research
1997–: Associate scientist 1st class at the French National Center for Scientific Research

Areas of interest

Combinatorics, Algebra, Algorithm, Computer Algebra, Number Theory

Talks

Paris, Lyon, Philadelphia, Hanover, Linz, Bordeaux, Strasbourg, Séminaire Lotharingien de Combinatoire, Oberwolfach, Beijing, Tianjin, Nanjing, Luoyang, Wuhan

Co-authors

Bessenrodt, Christine; Bugeaud, Yann; Clarke, Robert John; Dehaye, Paul-Olivier; Foata, Dominique; Fu, Hao; Ji, Kathy Qing; Jouhet, Frédéric; Krattenthaler, Christian; Lass, Bodo; Lin, Zhicong; Ono, Ken; Perrin, Dominique; Randrianarivony, Arthur; Shu, Huazhong; Wu, Wen; Xin, Guoce; Zeng, Jiang; Wen, Zhi-Ying; Yao, Jia-Yan

Publications

87 papers, available on my home page <http://www-irma.u-strasbg.fr/~guoniu>

Guoniu Han CV - Publications (last five years 2011-1015)

- [61] G.-N. Han, K. Ono. — Hook lengths and 3-cores, *Annals of Combin.*, **15** (2011), pp. 305–312.
- [65] D. Foata, G.-N. Han. — Doubloons and new q -tangent numbers, *Quarterly Journal of Mathematics*, **62** (2011), pp. 417–432.
- [67] G.-N. Han, Kathy Q. Ji. — Combining hook length formulas and BG-ranks for partitions via the Littlewood decomposition, *Trans. Amer. Math. Soc.*, **363** (2011), pp. 1041–1060.
- [70] D. Foata, G.-N. Han. — The (t, q) -analogs of secant and tangent numbers, *Electronic J. Combinatorics*, **18(2)**, #P7, 2011, 16 pages.
- [71] D. Foata, G.-N. Han. — The decrease value theorem with an application to permutation statistics, *Advances in Appl. Math.*, **46** (2011), pp. 296–311.
- [75] G.-N. Han, F. Jouhet, J. Zeng. — Two new triangles of q -integers via q -Eulerian polynomials of type A and B, *The Ramanujan Journal*, **31** (2013), pp. 115–127.
- [76] P.-O. Dehaye and G.-N. Han. — A multiset hook length formula and some applications, *Discrete Mathematics*, **311** (2011), pp. 2690–2702.
- [77] G.-N. Han, Z. Lin, J. Zeng. — A symmetrical q -Eulerian identity, *67e Séminaire Lotharingien de Combinatoire*, **67**, [B67c], 2012, 11 pages.
- [78] D. Foata, G.-N. Han. — Multivariable Tangent and Secant q -derivative Polynomials, *Moscow Journal of Combinatorics and Number Theory*, **2** (2012), pp. 232–282.
- [79] D. Foata, G.-N. Han. — Finite Difference Calculus for Alternating Permutations, *Journal of Difference Equations and Applications*, **19** (2013), pp. 1952–1966.
- [80] D. Foata, G.-N. Han. — Tree Calculus for Bivariate Difference Equations, *Journal of Difference Equations and Applications*, **20** (2014), pp. 1453–1488.
- [81] D. Foata, G.-N. Han. — Secant Tree Calculus, *Central European Journal of Mathematics*, **12** (2014), pp. 1852–1870.
- [82] Y. Bugeaud, G.-N. Han. — A combinatorial proof of the non-vanishing of Hankel determinants of the Thue–Morse sequence, *Electronic J. Combinatorics*, 17 pages, **21(3)** (2014), #P3.26.
- [83] D. Foata, G.-N. Han. — Seidel Triangle Sequences and Bi-Entringer Numbers, *European Journal of Combinatorics*, **42** (2014), pp. 243–260.
- [84] G.-N. Han. — Hankel Determinant Calculus for the Thue-Morse and related sequences, *J. Number Theory*, **147** (2015), pp. 374–395.
- [85] H. Fu, G.-N. Han. — On t -extensions of the Hankel determinants of certain automatic sequences, *Theoretical Computer Science*, **562** (2015), pp. 46–56.
- [86] G.-N. Han, W. Wu. — Evaluations of the Hankel determinants of a Thue-Morse-like sequence, *International J Number Theory*, **11** (2015), pp. 1887–1904.
- [87] Y. Bugeaud, G.-N. Han, Z.-Y. Wen, J.-Y. Yao. — Hankel determinants, Padé approximations, and irrationality exponents, *International Mathematics Research Notices*, à paraître, 2015.