

Yen-Liang Kuan

Curriculum Vitae

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Personal Information

Sex Male

Nationality Taiwan

Date of Birth December 17, 1983

Mailing Address Taida Institute for Mathematical Sciences, National Taiwan University No. 1, Sec. 4, Roosevelt Road, Taipei 10617, Taiwan

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Employment

2013/07- **Post-doctor**, *Taida Institute for Mathematical Sciences, National Taiwan University.*

Education

2007–2013 **Ph.D in Mathematics**, *National Central University.*

PhD Thesis: On the Distribution of Primes.

Advisor: Professor Yen-Mei Chen

2006-2007 **Master Program in Mathematics**, *National Central University.*

2002-2006 **Bachelor of Science in Mathematics**, *National Central University.*

Research Interest

Number Theory

Averaging value problems

Arithmetic of elliptic curves

Arithmetic of Drinfeld modules

Computational algebra

Publications

- [6] Yen-Liang Kuan and Yi-Hsuan Lin, Criterion for deciding zeta-like multizeta values in positive characteristic, *Exp. Math.* 25 (2016), no. 3, 246-256.
- [5] Chih-Yun Chuang, Yen-Liang Kuan and Jing Yu, On counting polynomials over finite fields, *Proc. Amer. Math. Soc.* 143 (2015), no. 10, 4305-4316.
- [4] Yen-Liang Kuan, A function field analogue of Romanoff's theorem, *Int. J. Number Theory* (2015), vol. 11, no. 07, 2161-2173.

- [3] Yen-Liang Kuan, Wentang Kuo and Wei-Chen Yao, On Erdős-Pomerance conjecture for rank one Drinfeld modules, *J. Number Theory* 157 (2015), 1-36.
- [2] Yen-Mei J. Chen and Yen-Liang Kuan, On the distribution of torsion points modulo primes: the case of function fields, *Manuscripta Math.* 148 (2015), no. 3-4, 435-445.
- [1] Yen-Mei J. Chen and Yen-Liang Kuan, On the distribution of torsion points modulo primes, *Bull. Austral. Math. Soc.* 86 (2012), 339-347.

Preprints

- [1] Chih-Yun Chuang and Yen-Liang Kuan, On the density of abelian ℓ -extensions, submitted.
- [2] Huei-Jeng Chen and Yen-Liang Kuan, On depth 2 zeta-like families, submitted.

Referee Experiences

Journal of Number Theory, Finite Fields and Their Applications.

International Visiting

2012/04-2012/11 Waterloo University, Waterloo, Canada (supported by the Graduate Students Study Abroad Program of National Science Council).

Invited talks in international conferences/workshops

- 2016 6/6-9 2016 POSTECH PMI-NCTS Joint Workshop in Number Theory, Pohang, Korea.
- 2015 10/13-15 Taipei-Xian Number Theory Workshop, Taipei, Taiwan.
- 2015 8/23-29 5th East Asia Number Theory Conference in Memory of Professor Linsheng Yin, Chuncheon, Korea.
- 2015 5/16-19 The National Conference on Number Theory 2015, Shandong, China.
- 2014 9/1-6 Japan-Taiwan Joint Conference on Number Theory 2014, Kesenuma, Japan.
- 2013 7/1-5 Journées Arithmétiques JA2013 at Université Grenoble I, Grenoble, France.
- 2012 10/25 Number Theory Seminar at Waterloo University, Waterloo, Canada.

Invited talks at seminars

- 2016 5/14 Colloquium at National Chiao Tung University, Hsinchu, Taiwan.
- 2015 5/27 NCTS Mini Workshop on Special Values in Positive Characteristic, Hsinchu, Taiwan
- 2013 12/6-8 The 2013 Annual Meeting of the Taiwan Mathematical Society, Kaohsiung, Taiwan
- 2013 4/16 Colloquium at National Central University, Taoyuan, Taiwan.
- 2010 12/10-12 2010 Mathematical Conference and Annual Meeting of the Taiwan Mathematical Society, Changhua, Taiwan

Conferences attended

- 2017 6/26-30 Arithmetic of Function Fields, Dedicated to the memory of David Goss, Munster, Germany.
- 2016 8/22-26 6th East Asia Number Theory Conference, Tianjin, China.
- 2016 6/27-7/1 Analogies between Number Fields and Function Fields: Algebraic and Analytic Approaches, Lyon, France.
- 2016 1/18-22 Conference on Algebraic Number Theory at TSIMF, Hainan, China.

- 2014 3/15-19 Arizona Winter School 2014: Arithmetic Statistics, University of Arizona in Tucson, AZ., U.S.A.
- 2012 1/6-14 Postech Winter School 2012: The Birch and Swinnerton-Dyer Conjecture at Postech, Pohang, Korea.
- 2011 3/12-16 Arizona Winter School 2011: Stark-Heegner points, University of Arizona in Tucson, AZ., U.S.A.
- 2011 1/14-21 Postech Winter School 2011: Serre's modularity Conjecture at Postech, Pohang, Korea.
- 2010 3/17-19 The 15th Joint Workshop on Number Theory between Japan and Taiwan at Waseda University, Tokyo, Japan.

Teaching Experience

2016/9 - 2018/6 Calculus, National Taiwan University.

2013 Spring Elementary Number Theory (co-teaching with Yen-Mei Chen), National Central University.

Ability of Teaching

Basic Topics

Calculus, Linear Algebra, Abstract Algebra, Elementary Number Theory.

Advanced Topics

Modern Algebra, Algebraic Number Theory, Applied Algebra, Computational Algebra.

Computer skill

Mathematical software Mathematica, Magma (can teach courses with these software tools).