

Curriculum Vitae for Peter Cho-Ho Lam (Last Updated: Nov 13, 2018)

Personal Information

Email: chohol@sfu.ca

Citizenship: Hong Kong

Website: <http://www.sfu.ca/~chohol/>

Research Interests

- Analytic number theory, especially on problems related to primes
- Applications of analytic methods in arithmetic geometry and combinatorics

Education

- **Simon Fraser University, Canada** 09/2014-present
Ph.D. Student In Mathematics
Supervisors: Prof. Stephen Choi, Prof. Peter Borwein
- **University of Hong Kong, Hong Kong** 09/2012-08/2014
M.Phil. In Mathematics
Supervisors: Prof. Tsang Kai Man, Dr. Lau Yuk Kam
- **Chinese University of Hong Kong, Hong Kong** 09/2009-08/2012
BSc. In Mathematics

Publications

- Peter Cho-Ho Lam, *Representation of Integers Using $a^2+b^2-dc^2$* , Journal of Integer Sequences, Vol. 18 (2015), Article 15.8.6.
- Tsz Ho Chan, Stephen Choi and Peter Cho-Ho Lam, *Divisibility on the Sequence of Perfect Squares Minus One: the Gap Principle*, Journal of Number Theory, Volume 184, March 2018, p. 473-484.
- Peter Cho-Ho Lam, *Primes of the form $\alpha x^2 + \beta xy + \gamma y^2$* , submitted for publication.
- Peter Cho-Ho Lam, Damaris Schindler and Stanley Xiao, *On prime values of binary quadratic forms with a thin variable*, submitted for publication.
- Peter Cho-Ho Lam, *A generalization of Bombieri-Vinogradov theorem and its applications*, submitted for publication.

Awards and Honors

- Travel & Minor Research Award, Simon Fraser University 2017
&2018
- Graduate Fellowship, Simon Fraser University 2017&
2019
- Chung Chi Scholarship for Excellence 2010
Chung Chi College, Chinese University of Hong Kong &2011
- Mathematics Scholarship 2009
Department of Mathematics, Chinese University of Hong Kong
- Silver Medal, The 50th International Mathematical Olympiad 2009
- Silver Medal, The 49th International Mathematical Olympiad 2008
- Silver Medal, The 48th International Mathematical Olympiad 2007

Invited Talks

- *Large Sieve Type Inequality for the Roots of Quadratic Congruence*, 06/2016
2016 CMS Summer Meeting, University of Alberta
- *Large Sieve Type Inequality for the Roots of Quadratic Congruence*, 05/2015
Pacific Northwest Number Theory Conference 2015,
University of Oregon

Contributed Talks

- *Primes of the form $x^2 + Dy^2$* , SFU Number Theory 09/2016
Seminar, Simon Fraser University
- *Simultaneous prime values of two binary forms*, Canadian 07/2018
Number Theory Association Conference 2018, Laval
University

Invited Posters

- *Primes of the form $\alpha x^2 + \beta xy + \gamma y^2$* , 01/2018
Oregon Number Theory Days, Oregon State University

Conferences Attended

- Canadian Number Theory Association Conference 2018, 07/2018
Laval University
- Probability in Number Theory 05/2018
Centre de recherches mathématiques, Université de
Montréal
- Oregon Number Theory Days 01/2018

- Oregon State University
- Joint Mathematics Meetings 01/2018
San Diego Convention Center
 - MSRI Introductory Workshop: Analytic Number Theory 02/2017
Mathematical Sciences Research Institute
 - 2016 CMS Summer Meeting 06/2016
University of Alberta
 - 14th Meeting of the Canadian Number Theory Association 06/2016
University of Calgary
 - Pacific Northwest Number Theory Conference 2015 05/2015
University of Oregon
 - Analysis, Spectra and Number Theory: A Conference in 12/2014
Honor of Peter Sarnak on his 61th Birthday
Princeton University and the Institute of Advanced Study

Teaching Experience

- Teaching Assistant, Simon Fraser University
 - MATH 342: Number Theory 05/2018-08/2018
 - MATH 320: Introduction to Analysis II 01/2016-04/2016
 - 01/2017-04/2017
 - 01/2018-04/2018
 - MATH 322: Complex Variables 09/2015-12/2015
 - 09/2017-12/2017
 - 09/2018-12/2018
 - Calculus Workshop 09/2014-04/2017
 - 09/2017-08/2018
- Teaching Assistant, The University of Hong Kong
 - MATH 2822: Mathematical Methods for Actuarial 01/2014-04/2014
Sciences II
 - MATH 1821: Mathematical Methods for Actuarial 09/2013-12/2013
Sciences I
 - MATH 1013: University Mathematics II 01/2013-04/2013