

Qile Chen Curriculum Vitae

CONTACT Department of Mathematics
INFORMATION Columbia University *Tel:* (401) 339-7132
Rm 628, MC 4421 *E-mail:* q_chen@math.columbia.edu
2990 Broadway *Homepage:* http://www.math.columbia.edu/~q_chen
New York, NY 10027

CITIZENSHIP P.R.China

RESEARCH Algebraic geometry, logarithmic geometry in the sense of Kato-Fontaine-
INTERESTS Illusie, and its applications to Gromov-Witten theory and birational geom-
etry.

EMPLOYMENT July 2011 - Present, Ritt Assistant Professors, Columbia University

EDUCATION Ph.D, Mathematics, May 2011
* Brown University, Providence, RI USA
* Advisor: Professor Dan Abramovich
B.S., Pure and Applied Mathematics, July 2006
* University of Science and Technology of China, Hefei, P.R.China

PUBLICATIONS

- *Very free curves on Fano complete intersections*, with Yi Zhu, Algebraic Geometry, accepted, arXiv:1311.7189.
- *Chow quotients of toric varieties as moduli of stable log maps*, with Matthew Satriano, Algebra & Number Theory 7 (2013), no.9, 2313-2329. arXiv:1201.3406.
- *Logarithmic stable maps to Deligne-Faltings pairs II*, with Dan Abramovich, The Asian Journal of Mathematics 18 (2014) no.3, 465-488, arXiv:1102.4531.
- *The degeneration formula for logarithmic expanded degenerations*, Journal of Algebraic Geometry 23 (2014), no.2, 341-392. arXiv:1009.4378v1.
- *Logarithmic stable maps to Deligne-Faltings pairs I*, Annals of Mathematics (2) 180 (2014), no.2, 455-521. arXiv:1008.3090.
- *Logarithmic geometry and moduli*, with Dan Abramovich, Danny Gillam, Yuhao Huang, Martin Olsson, Matthew Satriano, and Shenghao Sun, Handbook of moduli. Vol. I, 1-61, Adv. Lect. Math. (ALM), 24, Int. Press, Somerville, MA, 2013. arXiv:1006.5870v1.
- *Very twisted stable maps*, with Steffen Marcus, and Henning Ulfarsson, Communications in Analysis and Geometry 18 (2010), no.4, 831-855.

arXiv:0811.0035v1.

PREPRINTS

- *A^1 -connected variety of rank one over non-closed fields*, with Yi Zhu, arXiv:1409.6398.
- *On the irreducibility of the space of genus zero stable log maps to wonderful compactifications*, with Yi Zhu, arXiv:1408.6105.
- *Boundedness of the space of stable logarithmic maps*, with Dan Abramovich, Steffen Marcus, and Jonathan Wise, arXiv:1408.0869.
- *A^1 -curves on log smooth varieties*, with Yi Zhu, arXiv:1407.5476.
- *The evaluation space of logarithmic stable maps*, with Dan Abramovich, Danny Gillam, and Steffen Marcus, arXiv:1012.5416.

AWARDS AND FELLOWSHIPS

- NSF grant DMS-1403271, July 2014 - June 2017.
- MEGA 2013 (Effective Methods in Algebraic Geometry) NSF conference grants DMS-1303109, Summer 2013.
- Simons Post-Doctoral Fellowship, July 2011 - June 2014.
- The Joukowsky Family Foundation Outstanding Dissertation Award, Brown University, May 2011.
- Research Fellowships, Brown University, Spring 2009, Fall 2009, Fall 2010.
- Graduate Student Fellowships, Brown University, Fall 2006, Spring 2007.

VISITING SCHOLAR APPOINTMENT

Hong Kong University of Science and Technology, Hong Kong, China, July 2014.

SELECTED TALKS

- Algebraic Geometry Seminar, Department of Mathematics, Stanford University, May 16, 2014.
- Algebraic Geometry Seminar, Department of Mathematics, Ohio State University, Mar. 26, 2014.
- Algebraic Geometry Seminar, Department of Mathematics, University of Utah, Feb. 25, 2014.
- Algebraic Geometry Seminar, Department of Mathematics, University of Colorado at Boulder, Nov. 3, 2013.
- Workshop on Enumerative geometry and CalabiYau varieties, Fields Institute, Canada, Oct. 15-19, 2013.
- Colloquium talk, Department of Mathematics, The University of Ari-

zona, Oct. 3, 2013.

- Summer Workshop on Arithmetic Geometry (SWAG), Tsinghua University, Beijing, China, July 22-25, 2013.
- 45 Minute Invited talk, International Congress of Chinese Mathematicians, Taipei, Jul. 14-19, 2013.
- Lectures on logarithmic geometry at Taida Institute for Mathematical Sciences, Taipei, Jul. 6-13, 2013.
- Young Mathematician Forum, Peking University, China, Jun. 18-21, 2013.
- Algebraic and Tropical Geometry Seminar, Department of Mathematics, Yale University, Dec. 6, 2012.
- Algebra, Geometry and Physics Seminar, Department of Mathematics, Stony Brook University, Nov. 28, 2012
- Algebraic Geometry Seminar, Department of Mathematics, University of Utah, Jan. 10, 2012.
- Workshop on Logarithmic Geometry and Moduli, Clay Mathematics Institute, Aug. 29 - Sep. 1, 2011.
- Algebraic Geometry Seminar, Department of Mathematics, Rice University, Feb. 22, 2011.
- Algebraic Geometry Seminar, Department of Mathematics, Johns Hopkins University, Feb. 1, 2011.
- Lectures on logarithmic stable maps, School of Mathematics, Korea Institution of Advanced Study, Korea, Dec. 1 & 3, 2010.
- Special Seminar, Department of Mathematics, Harvard University, Nov. 18, 2010.
- Representation Theory, Geometry and Combinatorics Seminar, Department of Mathematics, U.C. Berkeley, Sep. 7, 2010.
- Algebraic Geometry Seminar, Department of Mathematics, Brown University, Sep. 3, 2010.

SYNERGISTIC ACTIVITIES

- Reviewer for American Mathematical Society.
- Refereeing articles for Canadian Journal of Mathematics, Communications in Analysis and Geometry, Journal of the American mathematical Society, Manuscripta Mathematica.

TEACHING EXPERIENCE

Columbia University, New York, NY USA

* Instructor for Mathematics V1201, Calculus III.

Fall 2014

* Instructor for Mathematics V1102, Calculus II.

Spring 2013

- * Instructor for Mathematics V2010, Linear Algebra. **Fall 2012**
- * Instructor for Mathematics V1202, Calculus IV. **Spring 2012**

Brown University, Providence, RI USA

- * Teaching fellow for math0100, Second Semester Calculus. **Spring 2010**
- * Teaching fellow for math0100, Second Semester Calculus. **Fall 2008**
- * Teaching assistant for math0520, Linear Algebra. **Spring 2008**
- * Teaching assistant for math0090, First Semester Calculus. **Fall 2007**