

# Yao Liu

Cornell University  
Ithaca, NY 14850  
United States

Phone: (607) 262-0691  
Email: [yl688@cornell.edu](mailto:yl688@cornell.edu)  
Homepage: <http://www.math.cornell.edu/~liuyao/>

Born: January 27, 1986, Beijing, China  
Citizenship: People's Republic of China

## Education

2016	Ph.D. in Mathematics, Cornell (expected) Thesis: <i>On a Weak Huygens Principle and rational Cherednik algebra</i> (Advisor: <a href="#">Yuri Berest</a> )
2013	M.S. SPECIAL in Mathematics, Cornell
2008-2010	Studied in physics Ph.D. program, Cornell (no degree)
2008	B.A. in Mathematics & Physics, Columbia University, New York, NY

## Areas of specialization

Rational Cherednik Algebra • Huygens Principle of Hyperbolic PDEs • Representation Theory • Integrable Systems

## Publications & Talks

### PUBLICATIONS

(none)

### TALKS

Oct 2014	<i>Hyperbolic PDEs and Lacunas I &amp; II</i> , Lie Groups Seminar, Cornell
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### WORKSHOPS & CONFERENCES ATTENDED

May 2013	The 50th Topology Festival, Cornell University
Feb 2014	Highers Structures in Algebraic Analysis, Padova, Italy
Aug 2014	Highers Structures in Philadelphia, Temple University, Philadelphia
Jun 2015	Representation Theory and Geometry of Symplectic Resolutions, Northeastern University, Boston

## Teaching

2012-2016	Instructor for Calculus I & II (5 times)
2010-2016	Recitation TA and/or Grader for Linear Algebra, Multivariable Calculus, Differential Equations, Game Theory (non-majors), Complex Analysis, Differential Geometry, Matrix Groups, (graduate-level) Algebra II, Mathematical Explorations (Inquiry-based Learning for non-majors)
2008-2010	Recitation TA and/or Grader for Mechanics, Electromagnetism, Physics of Heavens & Earth (history of science from Thales to Newton for non-majors) in the Physics Department, Cornell

## Outreach Activities

Nov 2013

Math Explorer's Club: co-taught a mini-course on combinatorial game theory to middle school students.

## Skills

Languages: Mandarin Chinese (native), English (fluent)

Computers: Geometer's Sketchpad, Mathematica