

Shuijing Crystal Li

CONTACT INFORMATION	MS-136, Mathematics Department Rice University Houston, TX 77005	Office: (713) 348-2840 Cell: (832) 512-3373 E-mail: shuijing@rice.edu
RESEARCH INTERESTS	Algebraic geometry, Computational arithmetic geometry, Number theory.	
EDUCATION	Rice University, Houston, Texas Ph.D. Mathematics (GPA 3.98/4.0) Expected May, 2010 Thesis title: <i>del Pezzo surfaces with few rational points of degree 1 and 2 over finite fields</i> M.A. Mathematics (GPA 3.97/4.0) May 2006 University of Sci. & Tech. of China (USTC), Hefei, Anhui, China B.S. Computer Science (GPA 3.75/4.0) May 2004 B.A. Mathematics (GPA 3.87/4.0) May 2004	
PUBLICATION	del Pezzo surfaces with few rational points of degree 1 and 2 over finite fields eprint arXiv: 0904.3555, <i>preprint</i> .	
INVITED ADDRESSES	On <i>del Pezzo surfaces with few rational points over finite fields</i> <ul style="list-style-type: none">• Rice University, Fall 2009.• Huadong Normal University, Spring 2009.• USTC, Spring 2009.• University of Houston, Downtown, Spring 2009.	
CONFERENCE TALK	Rational points on del Pezzo surfaces of low degree, International Conference on Computational and Information Sciences, Spring 2009 .	
RESEARCH TALKS	<ul style="list-style-type: none">• Geometric properties of del Pezzo surfaces of low degree, Working Seminar, Rice University, Spring 2008.• Unirationality of cubic surfaces, Working Seminar, Rice University, Spring 2007.• Flatness, and the local criterion for flatness, Deformation Theory and Moduli in Algebraic Geometry, MSRI, Summer 2007.• Topics in Topology, Current Math Seminar, Rice University, Spring 2007.• Four Color Theorem in Graph Theory, Current Math Seminar, Rice University, Fall 2006.	
HONORS AND AWARDS	<ul style="list-style-type: none">• Rice Graduate Student Fellowship, 2004-present.• Selected as one of 50 attendees from a group of over 1030 applicants to attend the NSF ADVANCE Workshop on Negotiating the Ideal Faculty Position at Rice University, August 2008.• Robert Lowry Patten Award, Rice University, May 2008.• Travel Award– Rationally Connected Varieties and Diophantine Geometry Columbia/NYU, March 2007.• Dragon 100 Young Chinese Leadership Award—one of the 100 young leaders chosen globally from over 30 countries, The Dragon Foundation, August 2006.	

- Travel Award–Clay Mathematics Institute Summer School in Arithmetic Geometry, July 17-August 11, 2006.
- Outstanding Student Scholarship, University of Sci. & Tech. of China, 1999-2004.

TEACHING
EXPERIENCE

Instructor

May-July 2007, Jan-July 2008

Taught three mathematics courses to undergraduate students and graduate engineering students at Rice University. Took full responsibility for lectures, exams, homework assignments and grades.

- Multivariable calculus 212, **Jan-July 2008**.
- Calculus 101, **Summer 2007**.
- Calculus 102, **Summer 2006**.

VIGRE Program Advisor

Summer 2009

Served as an Advisor in the VIGRE program at Rice University, which is a program sponsored by the National Science Foundation to carry out innovative educational programs in which research and education are integrated. I took responsibility for formal mentoring, daily discussion and expanding new research topics.

Graduate Teaching Assistant

August 2004 - present

Served as teaching assistant for 11 semesters. Duties included shared administrative responsibilities with faculty instructor, fielding of students' inquiries, giving weekly help sessions and grading exams.

- Topics in Algebra, Rice University, Fall 2009
- Topics in Commutative Algebra, Rice University, Spring 2009
- Topics in Complex Analysis, Rice University, Fall 2008
- Linear Algebra, Rice University, Fall 2007
- Multi-variable calculus, Rice University, Spring 2007
- Honors calculus III, Rice University, Fall 2006
- Ordinary differential equations, Rice University, Spring 2006 and Spring 2005
- Single variable calculus I, Rice University, Fall 2005

SKILLS

- Programming Languages: *C/C++*, *Pascal*, *FoxPro*, *Visual Basic*
- Software using: *Magma*, *Matlab*, *LaTeX*, *Maple*, *Singular*
- Operating Systems: *Unix/Linux*, *Windows*
- Languages: *Chinese, English, conversational Cantonese and basic Japanese*

PROFESSIONAL
MEMBERSHIPS

Member of Association for Women in Mathematics, May 2005-Present
Member of American Mathematical Association, August 2004-Present