## Zheng Hua

Contact Information	426 Run Run Shaw Bldg Department of Mathematics University of Hong Kong Pokfulam, Hong Kong	<i>E-mail:</i> huazheng@maths.hku.hk <i>Home page:</i> www.http://hkumath.hku.hk/ huazheng/
Research Interests	Algebraic Geometry	
1111111111111	Calabi-Yau manifolds, derived category, Donaldson-Thomas theory.	
CURRENT POSITION	<b>University of Hong Kong</b> , Hong Kong, China Assistant professor	
Previous Positions	Kansas State University, Manhattan, KS, U.S.Visiting assistant professorSponsors: Ricardo Castano Bernard & Yan Soibelman.	
	<b>University of British Columbia</b> <i>Postdoctoral fellow</i> Sponsors: Kai Behrend & Jim Brya	, Vancouver, BC, Canada August, 2009 - August, 2011 an.
Visiting Positions <b>University of Oxford</b> , U.K. Oct - Nov, 2012		
	Chinese University of Hong Kong, Hong Kong Sep 2012 - Aug 2013	
	<b>Imperial college London</b> , Londo Feb - April, 2011	n, UK
	Max-Planck-Institute fur Math May - Aug, 2010 May - Aug, 2012	nematik, Bonn, Germany
Education	University of Wisconsin-Madis	on, Madison, Wisconsin, USA
	Ph.D. in Mathematics, May 2009	
	<ul><li>Dissertation: "Derived catego</li><li>Advisor: Lev A. Borisov</li></ul>	ories of toric stacks and Calabi-Yau varieties"
	Zhejiang University, Hangzhou, China	
	B.S., Mathematics at Zhu Ke-zh	en Honor College, June, 2004
	Middle school affiliated to Nanjing Normal University, Nanjing, China	
	Sep 1994 - June 2000	

Honors and Awards	AMS-Simons Travel Grant 2012-2014		
	<b>INFORMS Outstanding Prize</b> in the Mathematical Contest in Modeling The Institute for Operations Research and the Management Sciences, 2002		
Publications	<ol> <li>L. Borisov, Z. Hua Calabi-Yau threefolds with nonabelian fundamental groups. Proc. Amer. Math. Soc. 136 (2008), 1549-1551.</li> </ol>		
	<ol> <li>Z. Hua Classification of free actions on complete intersections of four quadrics. Adv. Theor. Math. Phys. 15 (2011) 118</li> </ol>		
	<ol> <li>L. Boriosv, Z. Hua On the conjecture of King for smooth toric Deligne-Mumford stacks. Advances in Mathematics Volume 221, Issue 1, 1 May 2009, Pages 277-301.</li> </ol>		
	4. Z. Hua On the Grothendieck groups of toric stacks. Preprint arXiv:0904.2824.		
	<ol> <li>Z. Hua Chern-Simons functions on toric Calabi-Yau threefolds and Donaldson-Thomas theory. preprint arXiv:1103.1921. Submitted</li> </ol>		
	<ol> <li>DE. Diaconescu, Z. Hua, Y. Soibelman HOMFLY polynomials, stable pairs and motivic Donaldson-Thomas invari- ants. Communication of Number theory and Physics, Volume 6, Number 3, 517600, 2012</li> </ol>		
	<ol> <li>Z. Hua Spin structure on moduli space of sheaves on Calabi-Yau threefold. preprint arXiv:1212.3790. Submitted</li> </ol>		
Recent Research Interests	• Quantization of Donaldson-Thomas theory. Joint with Kai Behrend		
	• Bridgeland stability conditions on Calabi-Yau manifolds		
Talks	<ul> <li>Triangulated categories of singularities. Zhejiang University; December 2006.</li> <li>Algebraic Geometry Seminar, University of Wisconsin-Madison; 2007.</li> <li>Geometry and Physics Seminar, University of Michigan, Ann Arbor; September, 2008.</li> <li>Algebraic Geometry Seminar, University of British Columbia; 2009.</li> <li>Algebraic Group Seminar, University of British Columbia; 2009.</li> <li>Algebraic Geometry Seminar, Rutgers University; Feb 2010.</li> <li>Algebraic Geometry Seminar, University of British Columbia; Sep 2010.</li> <li>Algebraic Geometry Seminar, Nagoya University; Jan 2011.</li> <li>Algebraic Geometry Seminar, BIMS, Kvoto University: Jan 2011.</li> </ul>		
	<ul> <li>Algebraic Geometry Seminar, KIMS, Kyötö University, Jan 2011.</li> <li>Algebraic Geometry Seminar, Imperial college London; Feb 2011.</li> <li>Mirror symmetry Seminar, Kansas State University; Sep 2011.</li> <li>Geometry Seminar Chinese Univ. of Hong Kong; Dec 2011.</li> <li>Algebraic Geometry Seminar University of Wisconsin-Madison, March 2012</li> <li>String theory Seminar Rutgers University, Apr 2012</li> <li>Geometry and Topology Seminar University of Missouri-Columbia, May 2012</li> <li>Conference on Mirror symmetry and related topics Kunming, China, Aug 2012</li> <li>Hong Kong geometry colloquium Hong Kong, Sep 2012</li> <li>Geometry seminar University of Oxford, Oct 2012</li> </ul>		

• Geometry and topology seminar Imperial college on London, Oct 2012

SERVICES

- Referee for Glasgow Mathematical Journal, Advances in Mathematics, Compositio Mathematica, Journal of Differential geometry, Geometry and Topology
- Reviewer of Math reviews of American Math Society.
- Reviewer of Zentralblatt MATH.
- Co-organizer of Algebraic Geometry seminar in University of British Columbia, Sep 2009- Aug 2011.
- Co-organizer of Mirror Symmetry seminar in Kansas State University, Sep 2011-Present.
- Co-organizer of AMS workshop on Mirror symmetry and algebraic geometry, March 2012.