

## Curriculum Vitae - Ziqing Xiang - October 21, 2014

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## Education

**Sep. 2010 - Jun. 2014** B.Sc. in Computer Science, Shanghai Jiao Tong University.  
**Aug. 2014 - now** Mathematics, University of Georgia.

## Grant

- Chun-Tsung program, Shanghai Jiao Tong University, Sep. 2013 - Jun. 2014.

## Publications

- A Fisher type inequality for weighted regular  $t$ -wise balanced designs, *Journal of Combinatorial Theory A*, 119 (2012), 1523-1527.

## Papers in preparation

The abstracts and preprints are available on my personal homepage.

- With Moshe Rosenfeld,  
Hamiltonian decomposition of prisms over cubic graphs,  
submitted to DM&TCS.
- Nonexistence of nontrivial tight 8-design.
- With Zhen Cui and Jiacheng Xia,  
Rational spherical design.
- With Yaokun Wu,  
Lit-only  $\sigma$ -game.
- With Xinmao Wang and Yaokun Wu,  
Positive matrices, primitive matrices, scrambling matrices, contractible matrices.
- Product of P-polynomial association schemes.
- $s$ -distance set in real hyperbolic space.
- With Yaokun Wu and Yinfeng Zhu,  
Hamiltonian thickness and spanning subdivision of  $f$ -factor.

## Talks

- Product of P-polynomial association schemes,  
Workshop on Algebraic Combinatorics,  
Hebei Normal University, Nov. 19, 2013.
- Lit-only  $\sigma$ -game,  
The 2nd Pacific Rim Mathematical Association Congress,  
Shanghai Jiao Tong University, Jun. 24, 2013.
- Some  $s$ -distance set,  
Mini-Workshop on Spherical Designs and Related Topics,  
Shanghai Jiao Tong University, Nov. 21, 2012.
- Incidence matrix and cover matrix,  
The 2nd Japan-Taiwan Conference on Combinatorics and its Applications,  
Nagoya University, Nov. 11, 2012.
- Nonexistence of nontrivial tight 8-design,  
2012 Shanghai Conference on Algebraic Combinatorics,  
Shanghai Jiao Tong University, Aug. 18, 2012.
- Fisher type inequality,  
Workshop on Algebraic Combinatorics,  
Shanghai Jiao Tong University, Sep. 16, 2011.

## Teaching

- Computational Number Theory,  
Shanghai Jiao Tong University, 2012 Summer.
- Real Analysis,  
Shanghai Jiao Tong University, 2011 Spring.
- Calculus,  
Shanghai Jiao Tong University, 2010 Fall.