

# Hana Cho

## Research Interest

Numerical Analysis, Scientific Computing and Partial Differential Equation  
Phase Field Models, Functionalized Cahn-Hilliard Models  
High Performance Computing for Numerical Solutions of PDE, Parallel Computing

## Education

**Ph.D. in Applied Mathematics,** Aug. 2011-present  
Michigan State University, East Lansing, MI, USA  
Advisor: Dr. Andrew Christlieb

**M.S. in Mathematics,** Feb. 2010  
Ewha Womans University, Seoul, Republic of Korea  
Dissertation Topic: "*Data-adaptive Image Zooming based on Moving Least-squares*"  
Advisor: Dr. Jungho Yoon

**B.S. in Mathematics,** Aug. 2008  
Ewha Womans University, Seoul, Republic of Korea

## Honors and Awards

Department of Mathematics Graduate Teaching Award, MSU, 2014  
Graduate Assistantship, MSU, Fall 2011 – Present  
Brain Korea 21 (BK21) Scholarship and Teaching Assistant Scholarship, Ewha Womans Univ, 2008 – 2010.  
Full Scholarship of the Combined B.S./M.S. program, Ewha Womans Univ, 2008-2010

## Talks

### Contributed Talks:

*High Order L-stable Schemes for the Nonlinear Parabolic Equation using MOLT* - SIAM Annual Meeting 2014, Jul 2014, Chicago.

### Poster Presentation:

*Image Zooming Method based on Data-Adapted Moving Least Squares* – Workshop on Image Processing and Image Understanding (IPIU), Jan 2010, Jeju.

## Conference Attended

*SIAM Annual Meeting 2014* in Chicago, Jul 2014.  
*Workshop on Image Processing and Image Understanding* in Korea, Jan 2010.  
*National Institute for Mathematical Science Thematic Winter School* in Korea, Dec 2009  
*Geometric Modeling and Imaging (GMAI)* in Spain, Aug 2009.  
*KSIAM Annual Meeting 2009* in Korea, Feb 2009.

## Teaching Activities

### Instructor

*Survey of Calculus I* at MSU  
Fall 2012 – Spring 2014

### Recitation TA

*College Algebra* at MSU  
*Set Theory* at Ewha W. University  
*Real Analysis 1* at Ewha W. University  
*Calculus II* at Ewha W. University  
Fall 2011 – Spring 2012  
Fall 2010  
Spring 2009  
Fall 2008

## Experience

**Research Assistantship** at MSU  
Summer 2014  
**The International Science and Engineering Camp (ISEC)** at Seoul; *Instructor*: Korean Foundation for the Advancement of Science and Creativity  
Summer 2008

## Skills

General Computer Programming: Matlab, C, C++, CUDA

## Contact Information

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