hvl2@psu.edu
https://haivle.com

Hai Le

education

Ph.D., Mathematics, Pennsylvania State University, 2016-present.

Passed Qualifying Exams in Real Analysis, Functional Analysis, Linear Algebra, and Numerical Linear Algebra, December 2016.

B.S., Mathematics, The University of Texas at San Antonio, 2012-2016.

University Life Award for Most Outstanding Undergraduate in Sciences, 2015.

experience

Research

Project: "Estimating Empirical Measures in Many Particle Systems," July 2017-Present.

Advised by Prof. Mykhailo Potomkin, Penn State. Supported by an NSF grant of Prof. Leonid Berlyand, Penn State. The goal of the project is to approximate empirical measures of interacting particle systems with random initial data in Wasserstein metrics in order to reduce computational complexity of solving the corresponding Vlasov equations.

Teaching

Lecturer for "MATH 022, College Algebra II," Penn State, Fall 2017, Spring 2018.
Grader for "MATH 501, Real Analysis," Penn State, Fall 2017.
Teaching Assistant for "MATH 110, Techniques in Calculus," 2016-2017.
Grader for "CS 4363, Cryptography," Computer Science Department, Spring 2015, 2016.
Math Tutor, Tomas Rivera Center, University of Texas at San Antonio, 2013–2016.

Conferences/Summer Schools

IAS/PCMI Summer School on "*Random Matrices*," June-July 2017.
PIMS Summer School at Simon Fraser University on "*Rigorous Computing*," June 2015.
Summer School at University of Notre Dame on "*Boundaries and Dynamics*," May 2015.
IAS/PCMI Summer School on "*Mathematics and Materials*," June-July 2014.

Math competitions

William Lowell Putnam Mathematical Competition.

Scores: 39 (2014, top 200).

Third Prize, Vietnam Mathematical Olympiad, 2012.

honors, & awards

Graduate

Jack and Eleanor Pettit Scholarship from the Eberly College of Science, 2017.
Vollmer-Kleckner Scholarship from the Eberly College of Science, 2016.

Undergraduate

College of Sciences' Dean's Fund for Excellence Award, 2014, 2015.
Peter T. Flawn Presidential Honors Endowed Scholarship, 2015.
Samuel A. and Pamela R. Kirkpatrick Endowed Presidential Scholarship, 2014.
College of Sciences' Presidential Scholarship, 2014.
Honors Dean's Scholarship, 2012–2016.

computer skills

LaTeX, Matlab, HTML/CSS