

Han, Jiyuan

Contact information

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Employment

Purdue University, 2018-2021

Golomb Visiting Assistant Professor of Mathematics

Mentor: Chi Li

Education

University of Wisconsin Madison, May, 2018

Ph.D. in Mathematics

Advisor: Jeff Viaclovsky

University of Wisconsin Madison, May, 2013

BS. in Mathematics, **BS.** in Computer Science

Research interest

Geometric Analysis, Algebraic Geometry

Papers

Deformation theory of scalar-flat Kähler ALE surfaces (with Jeff Viaclovsky), (American Journal of Mathematics)

Local moduli of scalar-flat Kahler ALE surfaces (with Jeff Viaclovsky) (Geometric Analysis. Progress in Mathematics)

Existence and compactness theory for the ALE scalar-flat Kahler surfaces (with Jeff Viaclovsky) (Forum of mathematics, sigma)

On the Yau-Tian-Donaldson conjecture for generalized Khler-Ricci soliton equations (with Chi Li) (arXiv:2006.00903)

Algebraic uniqueness of Khler-Ricci flow limits and optimal degenerations of Fano varieties (with Chi Li) (arXiv:2009.01010)

Teaching Experience

Instructor

August 2018 - May 2021

Teaching Assistant

September 2013 - May 2015

September 2016 - May 2018

Teaching awards

Fall 2017 Honored Instructor

Service

Co-Organizer of Purdue Geometry Seminar (Fall 2020)

Talks

Wenjun Wu math seminar at USTC, China, 2016.

Title: Deformation theory of scalar-flat Kähler ALE metrics

Geometry and topology seminar at UW-Madison, US, 2016.

Title: Deformation theory of scalar-flat Kähler ALE metrics

Geometry and topology seminar at UW-Madison, US, 2017.

Title: On closedness of ALE SFK metrics on minimal ALE Kähler surfaces

Differential geometry seminar at UC-Irvine, US, 2017.

Title: On closedness of ALE SFK metrics on minimal ALE Kähler surfaces

Geometry and topology seminar at Stony Brook university, US, 2017.

Title: On closedness of ALE SFK metrics on minimal ALE Kähler surfaces

AMS Sectional Meeting (at Vanderbilt University), US, 2018.

Title: On closedness of ALE SFK metrics on minimal ALE Kähler surfaces

The UC-Berkeley Differential Geometry Seminar, US, 2019

Title: Existence and compactness theory for ALE scalar-flat Kahler surfaces

Trends in Modern Geometry 2019, Tsinghua University, China, 2019

Title: Existence and compactness theory for ALE scalar-flat Kahler surfaces

Purdue Geometry Seminar, US, 2020

Title: On the Yau-Tian-Donaldson conjecture for generalized Kähler-Ricci soliton equations

Geometry and topology seminar at Stony Brook university, US, 2020.

Title: On the Yau-Tian-Donaldson conjecture for generalized Kähler-Ricci soliton equations