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# Jae Ho Cho

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## EDUCATION

### **Stony Brook University - Ph.D. in Mathematics**

AUGUST 2016 - PRESENT

- Fields : Ricci Flow, Kähler Geometry
- Advisor : Xiuxiong Chen

### **Seoul National University - B.A. in Mathematics**

MARCH 2010 - FEBRUARY 2016

- Graduated with Honors (Cum laude)

## PUBLICATIONS

1. J. H. Cho, Y. Li, *Ancient solutions to the Ricci flow with isotropic curvature conditions*, arXiv:2005.11866

## EXPERIENCE

### **Stony Brook University - Mathematics**

- Research Assistant
  - The Research Foundation for SUNY (2019 - Present)
- Teaching Assistant
  - Linear Algebra (2019)
  - Calculus III with Applications (2018, 2019)
  - Calculus II (2018)
  - Precalculus (2017)
  - Calculus A (2016)
- Grader
  - Introduction to Linear Algebra (2017, 2018)
  - Topology and Geometry (2017)

### **Seoul National University - Mathematics**

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- Teaching Assistant
    - Calculus I (2016)
  - Undergraduate Tutor
    - Calculus for Business (2015)
    - Calculus I (2011, 2015)
    - Calculus II (2011, 2012)

## AWARDS AND FELLOWSHIPS

### National Scholarship

Seoul National University (2010 - 2016)

### National Math Competition in South Korea

Korean Mathematical Society

- Silver Medal (2014)
- Bronze Medal (2011)

## PRESENTATIONS

### The Ricci flow under almost non-negative curvature conditions

APRIL 2020

Geometric Analysis Learning Seminar, Stony Brook University

### The first eigenvalue and Curvature

OCTOBER 2019

Student Differential Geometry Seminar, Stony Brook University

### How to Produce the Ricci Flow on the Noncompact Manifold

APRIL 2019

Geometric Analysis Learning Seminar, Stony Brook University

### Properties on Schramm - Loewner Evolution

DECEMBER 2018

Analysis Student Seminar, Stony Brook University

### Ricci flow and the Differentiable sphere theorem

OCTOBER 2018

Geometric Analysis Learning Seminar, Stony Brook University

### Regularity estimates and the convergence theorem of the Kähler-Ricci flow when $c_1(M) < 0$

OCTOBER 2018

RTG Student Geometry Seminar, Stony Brook University

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## **The Calabi conjecture (and Kahler-Ricci flow)**

OCTOBER 2018

Student Differential Geometry Seminar, Stony Brook University

## **3-Manifolds with positive Ricci Curvature**

APRIL 2018

Geometric Analysis Learning Seminar, Stony Brook University

## **Curvature and Sphere Theorem**

NOVEMBER 2017

Graduate Student Seminar, Stony Brook University

## **Isoperimetric Inequalities and Sobolev Inequalities**

NOVEMBER 2017

Geometric Analysis Reading Seminar, Stony Brook University

## **Simons' Inequality**

NOVEMBER 2017

Analysis Student Seminar, Stony Brook University

## **Poincaré Inequality and the First Eigenvalue**

NOVEMBER 2017

Geometric Analysis Reading Seminar, Stony Brook University

## **Bochner-Weitzenböck Formulas**

OCTOBER 2017

Geometric Analysis Reading Seminar, Stony Brook University

## **LANGUAGES**

Korean (native), English (advanced)