

# Randall R. Van Why Jr.

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## Education

### Northwestern University

*PhD. Mathematics*

Evanston, IL

*Sep. 2017 – Present*

### University of Chicago

*MSc. in Physical Science; Thesis: The Ricci Flow on Surfaces*

Chicago, IL

*Sep. 2016 – June 2017*

### New Mexico Institute of Mining and Technology (NMT)

*BSc. in Mathematics with minor in Computer Science; Summa cum laude*

Socorro, NM

*Aug. 2012 – May 2016*

## Research

Interests: Symplectic Geometry, Low-dimensional Topology, Geometric Analysis

### UChicago Mathematics REU

*Student Researcher*

Chicago, IL

*June 2015 – August 2015*

### NMT CREU

*Student Researcher*

Socorro, NM

*August 2014 – May 2015*

## Teaching

### Teaching Assistant/Grading

#### Northwestern University Math 234

*Multivariable Integral Calculus*

*TA/Grader*

#### Northwestern University Math 230

*Multivariable Differential Calculus*

*Exam Grader*

#### Northwestern University Math 224

*Single Variable Integral Calculus*

*Exam Grader*

#### Northwestern University Math 234

*Multivariable Integral Calculus*

*Exam Grader*

### Mentorship

#### Northwestern University DRP

*Graduate Mentor*

Evanston, IL

*2019*

#### Northwestern University Mathematics Department

*Graduate Tutor*

Evanston, IL

*2017-2018*

#### University of Chicago REU

*Graduate Mentor*

Chicago, IL

*2016, 2017, 2018, 2019*

## Conferences and Seminars

### Mathematical

#### Summer Northwestern Analysis Program (SNAP)

*Northwestern University*

Evanston, IL

*August 2019*

#### Graduate Summer School on the Homological Algebra of Mirror Symmetry

*Fields Institute*

Toronto, Canada

*July 2019*

#### Current Trends in Symplectic Topology

*Centre de Recherches Mathématiques*

Montreal, Canada

*July 2019*

<b>Kylerec 2019</b> <i>Graduate Workshop</i>	Truckee, CA <i>June 2019</i>
<b>Tsyganfest</b> <i>Northwestern University</i>	Evanston, IL <i>May 2018</i>
<b>UChicago/Northwestern Geometric Analysis Day</b> <i>Northwestern University</i>	Evanston, IL <i>April 2019</i>
<b>Graduate Student Topology and Geometry Conference</b> <i>University of Illinois at Urbana-Champaign</i>	Champaign-Urbana, IL <i>March 2019</i>
<b>Virginia Topology Conference</b> <i>University of Virginia</i>	Charlottesville, VA <i>December 2018</i>
<b>MSRI Summer Graduate School: The h-Principle</b> <i>University of Tokyo</i>	Tokyo, Japan <i>June/July 2018</i>
<b>Graduate Student Topology/Geometry Conference</b> <i>University of Illinois at Chicago</i>	Chicago, IL <i>April 2018</i>
<b>Geometric Analysis Day 2018</b> <i>University of Chicago</i>	Chicago, IL <i>March 2018</i>
<b>Southern California Geometric Analysis Seminar</b> <i>University of California Irvine</i>	Irvine, CA <i>January 2018</i>
<b>2017 Midwest Geometry Conference</b> <i>Kansas State University</i>	Manhattan, KS <i>November 2017</i>
<b>Summer Northwestern Analysis Program (SNAP)</b> <i>Northwestern University</i>	Evanston, IL <i>June-July 2017</i>
<b>Thematic Program on Kähler Geometry</b> <i>University of Notre Dame</i>	Notre Dame, IN <i>June 2017</i>
<b>UChicago Geometric Analysis Learning Seminar</b> <i>University of Chicago</i>	Chicago, IL <i>October 2016</i>
<b>University of Chicago Geometry and Topology Summer School</b> <i>University of Chicago</i>	Chicago, IL <i>August 2016</i>
<b>University of Chicago REU</b> <i>University of Chicago</i>	Chicago, IL <i>June 2015</i>
<b>AMS Sectional Meeting</b> <i>University of New Mexico</i>	Albuquerque, NM <i>April 2014</i>

## Non-Mathematical

<b>NU NTAC</b> <i>Northwestern University</i>	Evanston, IL <i>September 2018</i>
<b>UC SACNAS</b> <i>University of Chicago</i>	Chicago, IL <i>May 2017</i>
<b>HENAAC Conference</b> <i>Poster presenter</i>	Pasadena, CA <i>October 2015</i>
<b>Tapia Conference</b> <i>Poster presenter</i>	Boston, MA <i>February 2015</i>
<b>HENAAC Conference</b> <i>Scholarship recipient</i>	New Orleans, LA <i>October 2014</i>
<b>HENAAC Conference</b> <i>Scholarship recipient</i>	New Orleans, LA <i>October 2013</i>
<b>CSAW CTF</b> <i>New York University</i>	New York City, NY <i>November 2012</i>

**HENAAC Conference**  
*Scholarship recipient*

Orlando, FL  
October 2012

## Talks

### Conference Talks

**Kylerec 2019**  
*Liouville and Weinstein Skeleta*

Truckee, CA  
June 2019

### Seminar Talks

**Northwestern Graduate Student Seminar**  
*4-Manifolds*

Evanston, IL  
March 2019

**Special Seminar on Gromov's Compactness Theorem for J-Holomorphic Curves**  
*Eliashberg's Method of Filling by J-Holomorphic Curves*

Evanston, IL  
March 2019

**Special Seminar on Gromov's Compactness Theorem for J-Holomorphic Curves**  
*Gromov's Compactness Theorem*

Evanston, IL  
February 2019

**Special Seminar on Gromov's Compactness Theorem for J-Holomorphic Curves**  
*Higher derivative bounds*

Evanston, IL  
January 2019

**New Mexico Tech Philosophy of Mathematics Seminar**  
*Various Topics*

Socorro, NM  
2015-2017

**New Mexico Tech ACM**  
*Elliptic Curve Cryptography*

Socorro, NM  
February 2016

**New Mexico Tech Topology Seminar**  
*The  $h$ -Cobordism Theorem*

Socorro, NM  
Fall 2015

**New Mexico Tech Colloquium**  
*Configuration Spaces, Braid Groups, and Polynomials*

Socorro, NM  
September 2015

**UChicago REU**  
*Configuration Spaces, Braid Groups, and Polynomials*

Chicago, IL  
August 2015

## Memberships and Sponsors

### Graduate:

Supported by NSF Grant DMS-1502632 (2018-Present)

Northwestern University Fellowship (2017-2018)

HSF Graduate Scholar

Association for Women in Mathematics

American Mathematical Society

### Undergraduate:

New Mexico Tech Deans List (2012 - 2016)

NAVSEA/SPAWAR Scholarship (2012 and 2013)

Lockheed Martin Scholarship (2014-2015)

Mills Family Scholarship (2013-2016)

Maurice Greenberg Scholarship (2015-2016)