Randall R. Van Why Jr.

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Education

Northwestern University

Evanston, Il PhD. Mathematics Sep. 2017 - Present

University of Chicago

MSc. in Physical Science; Thesis: The Ricci Flow on Surfaces Sep. 2016 - June 2017

New Mexico Institute of Mining and Technology (NMT)

BSc. in Mathematics with minor in Computer Science; Summa cum laude Aug. 2012 - May 2016

Research

Interests: Symplectic Geometry, Geometric Analysis, Geometric Topology

NMT Computer Science Department

Socorro, NM August 2014 - May 2015

Undergraduate Researcher

Researched into the applications of sentiment analysis to the development of new metrics

for testing app developer reliability

Presented the findings and results via the Collaborative Research Experience for

Undergraduates (CREU) Program

Teaching/Professional Experience

University of Chicago

Chicago, IL

Chicago, IL

Socorro, NM

Graduate mentor Mentored undergraduate students during the UChicago Mathematics REU

Attended weekly meetings and refereed final papers Topics include: Stone-Weirstrauss Theorem, Brouwer's fixed-point theorem, and

introductory percolation theory, Morse Theory, Differential Topology, and Homotopy

Type Theory.

Northwestern University

Evanston, IL

Teaching Assistant

September 2017 - June 2018

June - July (2016,2017,2018)

Proctored and graded exams for Multivariable Calculus, Single Variable Integral

Calculus, and Multivariable Differential Calculus

NMT Mathematics Department

Socorro, NM

Grader

August 2015 - December 2015

Graded for the Basic Concepts of Real Analysis class at New Mexico Tech

NMT Mathematics Department

Socorro, NM

Student Lecturer

August 2015 - December 2015

Prepared and gave lectures on Differential Topology

Wrote and published lecture notes

Studied Steve Smale's proof of the h-cobordism theorem for purposes of an independent

study

IRIS/PASSCAL Instrument Center

Socorro, NM

Software Engineer / Computer Lab Technician

September 2012 - March 2015

Wrote software that aided in the interpretation and processing of seismological sensor

Maintained and repaired field laptops used in seismological experiments used around the

globe through the IRIS Consortium

NMT Computer Science Department

Socorro, NM

Teaching Assistant, Tutor, and Grader

January 2013 - May 2014

Lectured for the Introduction to Programming Laboratory Helped individual students struggling with the class

Met one one one with the students for grading

Conferences and Seminars

Last Updated: June 18, 2018

Mathematical

Graduate Student Topology/Geometry Conference University of Illinois at Chicago	Chicago, IL April 2018
Geometric Analysis Day 2018 University of Chicago	Chicago, IL March 2018
Southern California Geometric Analysis Seminar University of California Irvine	Irvine, CA January 2018
2017 Midwest Geometry Conference Kansas State University	Manhattan, KS November 2017
Summer Northwestern Analysis Program (SNAP) Northwestern University	Evanston, IL June-July 2017
Thematic Program on Kähler Geometry University of Notre Dame	Notre Dame, IN $June~2017$
UChicago Geometric Analysis Learning Seminar University of Chicago	Chicago, IL October 2016
University of Chicago Geometry and Topology Summer School University of Chicago	Chicago, IL $August 2016$
University of Chicago REU University of Chicago	Chicago, IL June 2015
AMS Sectional Meeting University of New Mexico	Albuquerque, NM $April~2014$

Non-Mathematical

UC Sacnas University of Chicago	Chicago, IL $May\ 2017$
HENAAC Conference Poster presenter	Pasadena, CA October 2015
Tapia Conference Poster presenter	Boston, MA February 2015
HENAAC Conference Scholarship recipient	New Orleans, LA October 2014
HENAAC Conference Scholarship recipient	New Orleans, LA October 2013
CSAW CTF New York University	New Orleans, LA November 2012
HENAAC Conference Scholarship recipient	Orlando, FL October 2012

Honors and Awards

Graduate:

Northwestern University Fellowship

HSF Graduate Scholar

Undergraduate:

New Mexico Tech Deans List (2012 - 2016)

NAVSEA/SPAWAR Scholarship (2012 and 2013)

Lockheed Martin Sholarship (2014-2015)

Mills Family Scholarship (2013-2016)

Maurice Greenberg Scholarship (2015-2016)