Randall R. Van Why Jr.

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Education

Northwestern University PhD. Mathematics	Evanston, IL 2017 – 2024
Princeton University Trailing PhD. Student and Fellow	Princeton, NJ 2021 - 2023
University of Chicago MSc. in Physical Sciences	Chicago, IL 2016 – 2017
New Mexico Institute of Mining and Technology (NMT) BSc. in Mathematics and Computer Science; Summa cum laude	Socorro, NM 2012 – 2016

Interests: Symplectic and Contact Geometry, Low-dimensional Topology

Affiliation

Georgia Institute of Technology
Visiting Assistant Professor

Institute for Advanced Study
Visiting Graduate Student

Atlanta, GA
2024 - Present
2024 - Present
2029

Conferences and Seminars

Organizer

GT-UGA Joint Geometry Topology Seminar	Atlanta, GA
Georgia Institute of Technology	October 2024 – Present
AMS Eastern Sectional at Clemson University Special Session on Invariants in Geometric Topology: Low Dimensions and Beyone	Clemson, SC March 2025
Tech Topology Conference Georgia Institute of Technology	Atlanta, GA December 2024

Participant

Midwest Panorama of Geometry and Topology University of Iowa	Iowa City, IA June 2025
2025 Georgia Topology Conference University of Georgia	Athens, GA $May~2025$
Tech Topology Conference Georgia Institute of Technology	Atlanta, GA December 2024
Workshop in Geometric Topology Calvin University	Grand Rapids, MI June 2024
Graduate Student Topology/Geometry Conference Michigan State University	East Lansing, MI April 2024
Tech Topology Conference Georgia Institute of Technology	Atlanta, GA December 2023
Trisectors Workshop 2023 University of California Davis	Davis, CA June 2023

Last Updated: September 10, 2025

2023 Georgia Topology Conference University of Georgia	Athens, GA May 2023
Midwest Geometry Conference 2023 Kansas State University	$\begin{array}{c} \text{Manhattan, KS} \\ \textit{March 2023} \end{array}$
SYNC Early Career Workshop University of California Davis	Davis, CA $August \ 2022$
Deformations of Geometric Structures in Current Mathematics Columbia University	New York City, NY May 2022
Graduate Student Topology/Geometry Conference Indiana University	Online $April\ 2021$
Eighth Pacific Rim Conference in Mathematics University of California Berkeley	Online $August \ 2020$
Southern California Geometric Analysis Summer School University of California Irvine	Irvine, CA February 2020
Summer Northwestern Analysis Program (SNAP) Northwestern University	Evanston, IL August 2019
Graduate Summer School on the Homological Algebra of Mirror Symmetrields $Institute$	try Toronto, Canada July 2019
Current Trends in Symplectic Topology Centre de Recherches Mathématiques	Montreal, Canada July 2019
Kylerec 2019 Graduate Workshop	Truckee, CA June 2019
Tsyganfest Northwestern University	Evanston, IL May 2018
UChicago/Northwestern Geometric Analysis Day Northwestern University	Evanston, IL April 2019
Graduate Student Topology and Geometry Conference University of Illinois at Urbana-Champaign	Champaign-Urbana, IL March 2019
Virginia Topology Conference University of Virginia	Charlottesville, VA December 2018
MSRI Summer Graduate School: The h-Principle University of Tokyo	Tokyo, Japan June/July 2018
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

AMS Sectional Meeting

University of New Mexico

Chicago, IL June 2015

Albuquerque, NM $April\ 2014$

Talks

Conference Talks

Midwest Panorama of Geometry and Topology Symplectic geometry, surface configurations, and non-algebraic manifolds	Iowa City, IA June 2025
41st Workshop in Geometric Topology 2024 Symplectic Stories from Algebraic Geometry	Grand Rapids, MI $June~2024$
Graduate Student Geometry Topology Conference Symplectic and Contact Geometries in Low Dimensions	East Lansing, MI April 2024
Tech Topology Conference Compactifications of Symplectic Manifolds (Cancelled due to illness)	Atlanta, GA December 2023
Trisectors Workshop 2023 Divisors and the Trisection of \mathbb{CP}^2	Davis, CA June 2023
2023 Georgia Topology Conference The Symplectic Geometry of \mathbb{CP}^2	Athens, GA May 2023
Kylerec 2019 Liouville and Weinstein Skeleta	Truckee, CA June 2019

Invited Seminar Talks

The Simons Center for Geometry and Physics Symplectic Seminar Non-Affine Stein Manifolds and Normal Crossing Divisors	Stony Brook, NY October 2025 (Planned)
University of Alabama Geometry-Topology Seminar Stein Manifolds and Normal Crossing Compactifications of PALFs	Tuscaloosa, AL October 2025 (Planned)
Columbia University Geometry Seminar Non-Affine Stein Manifolds and Normal Crossing Divisors	New York City, NY September 2025 (Planned)
University of Georgia Topology Seminar Symplectic NC-Divisors, Compactifications, and Non-Affine Symplectic Manifold	Athens, GA ds March 2025
UMASS Amherst Geometry Topology Seminar Symplectic NC-Divisors, Compactifications, and Non-Affine Symplectic Manifold	Amherst, MA ds October 2022

Seminar Talks

GT-Geometry Topology Research Seminar	Atlanta, GA
Special Lecture Series on Kähler Geometry (6 lectures)	October 2025 (Planned)
Special Seminar on The Yang-Mills Equations over Riemann Surfaces $Equivariant\ Morse\ Theory$	Atlanta, GA January 2025
GT Geometry Literature Seminar The Structure of Rational and Ruled Symplectic 4-Manifolds by D. McDuff	Atlanta, GA November 2024
GT Geometry Literature Seminar Morse theory for Lagrangian Intersections by A. Floer	Atlanta, GA September 2024
Georgia Tech Geometry Topology Seminar	Atlanta, GA
Symplectic NC-Divisors, Compactifications, and Non-Affine Symplectic Manifolds	August 2024
Northwestern Graduate Student Seminar	Evanston, IL
Toward Compression Progress	March 2024

Northwestern Geometry and Physics Seminar Three Lectures on Weinstein/Liouville Geometry	Evanston, IL January 2024
Northwestern Geometry and Physics Seminar Normal Crossing Divisors and Non-Affine Manifolds	Evanston, IL November 2023
Northwestern Graduate Student Seminar A tale of Exp and Log	Evanston, IL September 2023
GT GAPS Seminar Normal Crossing Divisor Compactifications of Symplectic Manifolds	$\begin{array}{c} \text{Online} \\ April \ 2023 \end{array}$
Notre Dame Geometry Group Seminar Linear Plumbings of Disk Bundles over Spheres and Symplectic Divisors with Normal Cro	South Bend, IN ssings July 2021
Northwestern Geometry Group Seminar Linear Plumbings of Disk Bundles over Spheres and Symplectic Divisors with Normal Cro	Evanston, IL ssings May 2021
Northwestern Graduate Student Seminar Milnor's Fibration Theorem	Evanston, IL January 2021
Notre Dame Graduate Student Seminar Milnor's Fibration Theorem	South Bend, IN December 2020
Northwestern Geometry Group Seminar Symplectic Divisors and Biran-Giroux Decompositions	Evanston, IL September 2020
UCLA Special Seminar on Flexibility in Symplectic and Contact Geometry Flexibility and Plastikstufe	Los Angeles, CA July 2020
Geometry for All Seminar Symplectic Geometry	Evanston, IL March 2020
Special Symplectic Geometry Seminar Donaldson's Divisor Theorem	Evanston, IL January 2020
Northwestern Graduate Student Seminar 4-Manifolds	Evanston, IL March 2019
Special Seminar on Gromov's Compactness Theorem for J-Holomorphic Curve Eliashberg's Method of Filling by J-Holomorphic Curves	es Evanston, IL March 2019
Special Seminar on Gromov's Compactness Theorem for J-Holomorphic Curve $Gromov$'s $Compactness$ $Theorem$	es Evanston, IL February 2019
Special Seminar on Gromov's Compactness Theorem for J-Holomorphic Curve Higher derivative bounds	es 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

Teaching

Instruction

Georgia Institute of Technology Math 1554

Linear Algebra Instructor

Georgia Institute of Technology Math 1553

Introduction to Linear Algebra Instructor

Georgia Institute of Technology Math 1551

Single Variable Calculus Instructor

Teaching Assistant/Grading

Northwestern University Math 382

Complex Analysis TA/Grader

Northwestern University Math 344

Abstract Linear Algebra TA/Grader

Northwestern University Math 330

 $Abstract\ Algebra$ TA/Grader

Northwestern University Math 310

 $Probability \ Theory$ TA/Grader

Northwestern University Math 300

Foundations of Higher Mathematics TA/Grader

Northwestern University Math 290

 $Linear\ Algebra$ TA/Grader

Northwestern University Math 285

Accelerated Mathematics for MMSS: Linear Algebra TA/Grader

Northwestern University Math 240

 $Matrix\ Algebra$ TA/Grader

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

Mentorship

Northwestern University DRP Evanston, IL Graduate Mentor 2019,2020

Northwestern University Mathematics Department Evanston, IL

Graduate Tutor 2017-2018

University of Chicago REU Chicago, IL

Graduate Mentor 2016,2017,2018,2019,2020

Memberships and Sponsors

American Mathematical Society (2014–Present)

Georgia Institute of Technology President's Postdoctoral Fellow (2024–Present)

Princeton University Fellow (2021–2023)

NSF RTG Support DMS-1502632 (2018-2021)

Northwestern University Fellow (2017–2018)