Thomas Rodewald

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Education

Georgia Institute of Technology

PhD in Mathematics (2019-Current)
- Advisor: Prof. John Etnyre
- Research Area: contact and symplectic topology

Master of Science in Mathematics (2016-2018)

Master of Arts in Economics (2019-2024)

University of Kansas

Bachelor of Arts in Mathematics (2010-2015)

Bachelor of Science in Economics (2010-2015)

Research

My research interests are generally in low-dimensional topology. More specifically I am interested in contact and symplectic topology - especially Legendrian knots and Lagrangian cobordisms, and open book decompositions.

Papers and Preprints

1. Cable Links of Uniformly Thick Knot Types, joint with Rima Chatterjee, John B. Etnyre, Hyunki Min https://arxiv.org/abs/2507.03185

2. On Lagrangian Cobordisms and the Chekanov-Eliashberg DGA, joint with Sierra Knavel (*In progress*)

Teaching

Teaching Assistant

Math 1552 (Integral Calculus)
Math 1553 (Linear Algebra)
Math 1554 (Linear Algebra)
Math 1564 (Honors Linear Algebra)
Math 1711 (Finite Mathematics)
Math 2551 (Multivariable Calculus)

Head TA

Math 1551 (Differential Calculus)

Instructor

Math 1551 (Differential Calculus)

Seminars and Talks Given and Upcoming

Talks Given

Lagrangian Cobordisms of Negative Twist Knots, AMS Southeast Sectional in Clemson University, Spring 2025.

Classifying Legendrian Cable Links of Negative Twist Knots, Tsinghua-BIMSA Symplectic Geometry Seminar, Fall 2024.

Classifying Legendrian Cable Links of Negative Twist Knots, AMS Southeast Section in Tallahassee, Spring 2024.

Stein Fillings of Contact Structures in Lens Spaces, Nearly Carbon Neutral Geometry Topology Conference, Summer 2023.

Regular appearances in the Georgia Tech Geometry Topology Student Seminar

Upcoming Talks

Classifying Legendrian Cable Links of Uniformly Thick Knots, Shanghai Jiao Tong University, Fall 2025

TBA, Shanghai Jiao Tong University, Fall 2025

Organizer

AMS Southeastern Sectional: *Special Session on Recent Advances in Contact and Symplectic Topology*, Spring 2026

Georgia Tech Geometry Topology Student Seminar, 2024

Graduate Student Topology and Geometry Conference, 2022

Conferences/Summer Schools Attended

WARTHOG Conference on Cluster Algebras and Braid Varieties, Summer 2025

CBMS Summer School in Legendrian Links and the Microlocal Theory of Sheaves, Summer 2025

Georgia International Topology Conference, Spring 2025

SEC Topology Conference, Spring 2025

Tech Topology Conference, 2024

Symplectic Dynamics in Montevideo, Spring 2024

Tech Topology Conference, 2023

Trisectors Workshop, 2023

MOAB Topology Conference, Summer 2023

Georgia Topology Conference, Summer 2023

Interactions Between Symplectic and Holomorphic Convexity in 4 Dimensions, Spring 2023

Tech Topology Conference, 2023

Tech Topology Conference, 2021

Tech Topology Summer School, 2021

Tech Topology Conference, 2019

Perspectives on Dehn Surgery Summer School, 2019

Tech Topology Conference, 2018

Other Skills

Fluent in Spanish

Experienced with MATLAB