Riccardo Pedrotti

Curriculum Vitae

Education

2024-2027	**Marshall H. Stone Visiting Assistant Professor**, *University of Massachussetts Amherst*, Amherst, MA.
2017-2024	**Graduate Studies**, *University of Texas at Austin*, Austin, TX.
2014 – 2017	**Master Degree in Mathematics**, *Rheinischen Friedrich-Wilhelms Universität Bonn*, Bonn, DE.
2011 – 2014	**Undergraduate Degree in Mathematics**, *Universitá degli Studi di Trento*, Trento, IT.

Graduate Thesis

Title	*Applications of fixed point Floer theory to 4-dimensional manifold problems.*
Supervisor	Prof. Timothy Perutz
Description	I provide a formula for counting rigid pseudo-holomorphic sections of a 4-dimensional Lefschetz fibration over the disk.

Master Thesis

Title	*Stable classification of certain families of 4-Manifolds*
Supervisor	Prof. Peter Teichner
Description	I worked on the stable classification of smooth, oriented 4-manifolds with fundamental group dihedral groups, in some cases providing a full classification of them.

Undergraduate Thesis

Title	*Un'Introduzione alla K-Teoria Topologica Complessa*
Supervisor	Prof. Edoardo Ballico
Description	An introduction to complex topological K-Theory, from the basic definitions to the Bott Periodicity Theorem and Parallelizability conditions for the spheres.

Research Interests

Symplectic Topology and Geometry, Floer (co)homology, Seiberg-Witten theory, Gauge theory, Algebraic Topology, Bordism, Homotopy theory

Papers and preprints

In progress	**Seidel's exact triangle and sections of 4-dimensional Lefschetz fibrations**, joint with T. Perutz.
2023	**Fixed point Floer cohomology of disjoint Dehn twists on a w^+-monotone manifold with rational symplectic form**, Journal of Symplectic Geometry 2024 vol 22 issue #3.

Selected talks and conferences

09/16/2024	**SCGP-Stonybrook. Symplectic Geometry, Gauge Theory, and Low-Dimensional Topology Seminar**, *Towards a count of holomorphic sections of Lefschetz fibrations over the disc*, (Invited speaker) `https://www.math.stonybrook.edu/cal/event.php?ID=6524`.
10/30/2023	**Stanford Symplectic Geometry seminar**, *Towards a count of holomorphic sections of Lefschetz fibrations over the disc*, (Invited speaker) `https://mathematics.stanford.edu/events/symplectic-geometry`.
10/12/2023	**Rutgers Symplectic seminar**, *Towards a count of holomorphic sections of Lefschetz fibrations over the disc*, (Invited speaker) `https://sites.google.com/view/rutgerssymplectic/home`.
9/22/2023	**Columbia Symplectic Geometry and Gauge Theory seminar**, *Towards a count of holomorphic sections of Lefschetz fibrations over the disc*, (Invited speaker) `https://math.columbia.edu/~asplund/sggt`.
6/27/2023	**Trisector workshop**, (Contributed talk) `https://sites.google.com/view/tw2023/`.

5/27/2023 **GTC2023**, (Contributed talk) `https://topology.franklinresearch.uga.edu/GTC2023`.

2/11/2023 **SCTC II**, (Contributed talk) `https://www.hiroleetanaka.com/sctc/_SCTC02-index.php`.

 7/7/2022 **GT GAPS**, *Fixed point Floer cohomology of a Dehn twist in a monotone setting and in more general contexts*, (Invited speaker) `https://www.math.toronto.edu/vivianhe/GT-GAPS.html`.

5/17/2022 **Freemath seminar**, *Fixed point Floer cohomology of a Dehn twist in a monotone setting and in more general contexts*, (Invited speaker) `https://freemath.xyz`.

4/27/2022 **Texas A&M Topology seminar**, *Fixed point Floer cohomology of a Dehn twist in a monotone setting and in more general contexts*, (Invited speaker) `https://www.math.tamu.edu/seminars/topology/index.php`.

4/23/2022 **17th Chico Topology Conference**, (Contributed talk)`http://tmattman.yourweb.csuchico.edu/CTC.html`.

 5/2018 **Summer Mini-course in complex oriented cohomology at the University of Texas at Austin**, (Lectured) I held a four-days long summer course at UT Austin about complex oriented cohomology, generalized orientation and generalized Thom isomorphism. My notes are publicly available on the nLab at `https://ncatlab.org/nlab/show/Riccardo+Pedrotti`.

3/16/2017 **Baby Geometri**, *Stable classification of four manifolds*, (Invited speaker) `http://people.dm.unipi.it/babygeometri/english/_site/Baby-Geometri2016-2017.pdf`).

▬▬▬ Awards

5/2023 **2022-2023 Frank Gerth III Teaching Excellence Award**.

5/2021 **2020-2021 Frank Gerth III Teaching Excellence Award**.

5/2018 **2017-2018 Frank Gerth III Graduate Excellence Award**.

8/2017 **Provost's Graduate Excellence Fellowship**, Two-year fellowship for graduate studies at the University of Texas, Austin.

2/2015 **Premio di Merito 2014**, An award from the University of Trento for outstanding careers.

10/2014 **BIGS Qualifying Scholarship**, Two-year scholarship for international students with an excellent Bachelor degree in mathematics.

▬▬▬ Language Skill

Italian **Mother Tongue**

English **TOEFL iBT: r30; l29; s24; w24**

German **B1 level**