

CONTACT

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MATTHIAS SCHARITZER

PhD Student - Mathematics

PRE-PRINTS

Quantum mirrors of cubic planar graph Legendrians
arXiv:2304.01872

April 2023

UNDERGRAD THESIS

Master Thesis
Contact Topology

2022

Proof of a folklore theorem about the equivalence of retrograde saddle connections and bypasses on convex surfaces.

Bachelor Thesis
Geometry

2020

Summarizing some geometric and topological results about non-integrable distributions in low-dimensions.

WORKSHOPS & CONFERENCES

Winter school in singularities and low-dimensional topology
Rényi Institute

Jan '23

LANGUAGES

German
English
French

Native
Fluent
Reading

RESEARCH INTERESTS

Legendrians
Holomorphic curves
Flow trees
Convex surfaces
Cluster Algebras

3D, 5D

3D

OTHER INTERESTS

Boardgames
Music
Reading

Tabletop
Metal
Fantasy

EDUCATION

PhD - Mathematics
University of Southern Denmark (Denmark)

2022 - ongoing

Topic: "Legendrians and cluster structures" under the supervision of Vivek Shende

Master of Science - Mathematics
University of Vienna (Austria)

2020 - 2022

Thesis title: "Foliations and bypasses in contact topology" und the supervision of Vera Vértési

Bachelor of Science - Mathematics
University of Vienna (Austria)

2017 - 2020

Thesis title: "Non-integrable Distributions" under the supervision of Andreas Cap

WORK EXPERIENCE

Teaching Assistant
University of Southern Denmark(Denmark)

Nov '22 - ongoing

Freshman courses in classical differential geometry and complex analysis

Tutor
MMF, University of Vienna (Austria)

Oct '21 - June '22

Tutoring for Freshman students

Tutor
Lernquadrat, Wien (Austria)

Jan '18 - Jul '20

Single and Group tutoring for students between the ages of 10-18 in mathematics.

Civil Servant
Assist4you, Wien (Austria)

Dec '16 - Aug '17

Civil Service in an assisted living complex for disabled people