Douglas Molin

★ 1995-07-08   📍 University of Gothenburg   ✉ molind@chalmers.se   🔗 douglasmolin.github.io

Education

PhD in Mathematics   *Aug 2021 –*
University of Gothenburg
- Supervisor: Christian Johansson

MSc in Mathematics   *Sept 2019 – Jun 2021*
University of Gothenburg
- Thesis: Effective Quasiparallelogram Laws for Elliptic Curves over Number Fields
- Supervisor: Prof. Per Salberger

BSc in Mathematics   *Sept 2016 – Jun 2019*
University of Gothenburg

Publications and preprints

On patched completed homology and a conjecture of Venkatesh   Preprint
arXiv:2407.04228 ↗

On derived deformation rings in characteristic 0 and a conjecture of Venkatesh   Preprint
Available at douglasmolin.github.io ↗.

Conferences and workshops attended

Arizona Winter School: Representation theory of p-adic groups   *Mar 2025*
University of Arizona

New Advances in the Langlands Program: Geometry and Arithmetic   *Sept 2024*
University of Oxford

Non-archimedean geometry and Eigenvarieties   *Mar 2023*
University of Heidelberg

Topology and Arithmetic around the Langlands Program   *Jun 2022*
Stockholm University

Research talks

On a conjecture of Venkatesh   *Feb 2024*
Seminar in Algebraic Geometry and Number Theory, University of Gothenburg

Teaching experience

Part-time teaching as part of employment as doctoral student   *Aug 2021 –*
University of Gothenburg & Chalmers University of Technology
- Includes lecturing, exercise sessions, computer labs and exam correcting in courses in analysis, algebra, probability and statistics.

Teaching assistant / Amanuens   *Aug 2017 – Aug 2021*
Chalmers University of Technology
- During the academic years 18/19 & 19/20, I was employed as *amanuens* (a two-year teaching position for undergraduates and master's students).
- Includes lecturing, exercise sessions, computer labs and exam correcting in courses in analysis, algebra, probability and statistics.