

Harold Lee “Howy” Jordan

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A dark red square containing the white letters 'HLJ' in a serif font.

Education

University of Colorado, Boulder

Doctor of Philosophy, Mathematics – May 2025

Advisor: Markus Pflaum

Thesis: “Gluing and Stratifications of Bundles and Infinite-Dimensional Spaces” [[JordanThesis](#)]

Master of Arts, Mathematics – August 2021

University of South Carolina, Upstate

Bachelor of Science, Mathematics – May 2017

Teaching Positions

University of Colorado, Boulder

Department of Mathematics

Lecturer August 2025 – Current

Data & Models - Fall 2025, Spring 2026

Calculus I - Fall 2025

Instructor

Calculus III – Spring 2024, Spring 2025

Course Assistant

Precalculus – Fall 2022

Student Academic Success Center

Instructor

Calculus Seminars – Spring 2022, Fall 2022, Spring 2023

Research Positions

Research Assistant – Fall 2024

Advisor: Markus Pflaum

Project: “Parallel transport along density matrices in infinite dimensions”, Extensions of results of finite dimensional stratified spaces to infinite dimensional spaces

Research Assistant Fall 2023

Advisor: Markus Pflaum

Project: “Challenges in the mathematical description of energy landscapes”, disjoint gluings of fiber bundles

Research Assistant – Fall 2020 - Fall 2021

Advisor: Markus Pflaum

Project: “Representations of Energy Landscapes by Sublevelset Persistent Homology: An Example With n-Alkanes”

REU(G) Research Participant – Summer 2020

Department of Mathematics

University of Colorado, Boulder

Advisor: Markus Pflaum

Project: Methods of Topological Data Analysis in chemistry

Conference talks

MAA Rocky Mountain Section Meeting – April 2025

“Conjunctive Decompositions and Gluing Bundles”

AMS Spring Western Sectional Meeting – May 2024

“Stratification of the state space of a C^* -algebra”

BLAST – April 2024

“Artin gluing of fiber bundles”