LEVI LORENZO

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Department of Mathematics University of Colorado Boulder

2300 Colorado Ave, Boulder, CO 80309

EDUCATION

University of Colorado Boulder *August 2019 - Present*

PhD in Mathematics - Expected May 2024

Advisor: Robin Deeley. PhD

GPA: 3.98/4

M.A. in Mathematics - August 2022

Hamilton College *August 2015 - May 2019*

B.A. in Mathematics (Magna Cum Laude)

Phi Beta Kappa Inductee

PUBLICATIONS

- R. Chaiser, M. Coates-Welsh, R. J. Deeley, A. Farhner, J. Giornozi, R. Huq, L. Lorenzo, J. Oyola-Cortes, M. Reardon, and A. M. Stocker "Invariants for the Smale space associated to an expanding endomorphism of a flat manifold" Münster J. Math 16 (2023), 177–199 arXiv:2208.02231

TEACHING

- Calculus 3 CoSeminar Instructor (for the Student Academic Success Center, see cover letter for details) - Fall 2023, Spring 2024

- Differential Equations Instructor on record - Spring 2023

- Calculus 3 Teaching Assistant - Spring 2022

- Calculus 2 Instructor -Fall 2021

- Calculus 1 Instructor -Spring 2021

- Calculus 2 Instructor - Fall 2020

- Calculus 1 Teaching Assistant - Spring 2020

- Calculus 1 Teaching Assistant - Fall 2019

AWARDS AND CERTIFICATIONS

- Certificate in College Teaching (In progress, expected May '24)

- 2023 CU Boulder Graduate School Summer Fellowship

- 2020 W.E. Briggs Teaching Excellence Award - CU Boulder Math Department

- Outstanding Presentation - Mathfest 2018

- 2018 Edward Huntingtion Memorial Mathematical Prize Scholarship - Hamilton College Math Dept

SERVICE AND MENTORSHIP

- Co-Organizer of Groundwork for Operator Algebras Lecture Series Research Showcase with Brent Nelson, August 2023

- Center for Teaching and Learning Math Department Lead Fellow 2022-23

- Mentor for Experimental Math Lab undergrad research project (5 undergrads) "Computing Invariants for Subshifts of Finite Type" - Fall 2022

- CU Boulder Math Dept. Diversity Committee, Fall 2019- Spring 2022

- Math Department Peer Mentor for first- year students, Fall 2020 - Spring 2022

- Organizer - Groundwork for Operator Algebras Lecture Series (GOALS) Seminar - 2021-2022

- Mentor for 4 undergraduate and 2 first-year graduate students on REUG project Computing Invariants for Dynamical Systems" under the supervision of Dr. Robin Deeley. - Summer 2021

- Math Dept Representative to Graduate and Professional Student Governmet - 2021 Calendar Year

- Graduate School Representative to the Recreation Board - Spring 2021

TALKS

- "Finitely Summable K-homology for Crossed Products" - U. Hawaii-Manoa Analysis seminar, November 2023

- "Finitely Summable K-homology for Crossed Products" - GOALS Research Showcase, August 2023

- "Finitely Summable K-homology" - CU Boulder Functional Analysis Seminar, March 2023

- "K-theory for C*-algebras" -GOALS Seminar, January 2023

- "Step Into a (Noncommutative) World"- CU Boulder Graduate Student Seminar, October 2022

- "Finite Summability in Noncommutative Topology and Geometry" - ASUERAU C* seminar - September 2022

- "The Smale Space Dance and the C* game" (lightning talk) - YMC*A, August 2022

- "Wieler Solenoids from Flat Manifolds, Part 2: The Unstable Groupoid" - Smale Spaces, their Groupoids, and their C*-algebras Conference, May 2022

- "C*-algberas from Solenoids"- KnOttawa Operator Algebras Summer School, July 2022

- "The Connes-Skandalis Connection" - CU Boulder Functional Analysis Seminar, April 2022

- "Is this a Groupoid??" - CU Boulder Graduate Student Seminar, Aoril 2022

- "Noncommutative Spin Geometry and Analytic K-homology" -CU Boulder Functional Analysis Seminar, Feb 2022

- "Groupoid C^* algebras" - GOALS Seminar, Sep 2021

- "Connes' Embedding Problem, Kircheberg's Conjecture, and $MIP^* = RE$" - CU Boulder Graduate Student Seminar, Aug 2021

- "Index Divisibility in Dynamically Generated Sequences" (w/ Annie Schenck) - Mathfest 2018

CONFERENCES AND SUMMER SCHOOLS ATTENDED

- Young Mathematicisan in C*-algebras, KU Leuven - August 2023

- Greater Plains Operator Theory Symposium, The Ohio State University, May 2023

- Topology Day, CU Boulder - May 2023

- Groupoidfest, CU Boulder - November 2022

- East Coast Operator Algebras Symposium, Michigan State University - October 2022

- Young Mathematicians in C*-algberas, University in Oslo - August 2022

- KnOttawa Operator Algebras Summer School, Kansas State University - July 2022

- Great Plains Operator Theory Symposium, Washington University in St. Louis - May 2022

- Smale Spaces, their Groupoids, and their C*-algebras - May 2022

- Groupoidfest, Univeristy of Colorado, Colorado Springs - Nov 2021

- Field of Dreams Conference (virtual) - Nov 2021

- Young Mathematicians in C*-algebras (attended virtually) - Aug 2021

- Groundwork for Operator Algebras Lecure Series Summer School (GOALS), Michigan State Universtiy - July 2021

- REUG at CU Boulder -Summer 2020, "Roots of Sums of Random Polynomials" with Professor Sean O'Rourke

- Mathfest - Aug 2018

- REU at Hobart and William Smith College, "Index Divisibility in Dynamically Generated Sequences" with Professor Alden Gassert