Arturo Jaime

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Research Interests

Noncommutative Geometry, Index Theory, C^* -Algebras, Algebraic Topology, and K-Theory.

Education —

2019 - Pres University of Hawai'i at Mānoa

Graduate Assistant, Mathematics (expected Ph.D May 2025) Doctoral Advisor: Rufus Willett

2015 - 2019 Arizona State University

B.S. in Mathematics, May 2019 Honors Thesis: "On the Admittance of Frames in Hilbert C^* -Modules" (2019) Thesis Advisor: Steve Kaliszewski; Committee: Jack Spielberg, Konrad Aguilar

Research -

A. Jaime and R. Willett, "Complexity Rank for C*-algebras". Münster Journal of Mathematics 16 (2023), 51-94. Preprint: arXiv: 2205.04704.

Invited & Contributed Talks -

2023	Finite Complexity Rank for C^* -algebras, Noncommutative Geometry Seminar,
	Texas A&M University, College Station, USA. April 19, 2023.
	math.tamu.edu/seminars/noncomgeom
2022	Complexity Rank One and K-Theory of C^* -algebras, YM C^*A , University of Oslo,
	Oslo, Norway. August 8-12, 2022.
	mn.uio.no/math/research/events/conferences/ymcstara2022
2021	Noncommutative Dimensions, Decomposability and K-Theory, GOALS Seminar, Online.
	May 27, 2021

Conferences & Workshops Attended _____

2023	July 3 - July 7, 2023: Noncommutative Geometry, Index Theory and Representation Theory,
	University of Kyoto, Kyoto, Japan
	indico.math.cnrs.fr/event/8330/
2023	June 12 - June 16, 2023: Noncommutative Geometry Festival 2023,
	Washington University in St. Louis, St. Louis, USA
	math.wustl.edu/ ylsong/NCG2023
2023	May 8 - May 12, 2023: Noncommutative Geometry along the North Sea Workshop,
	Hausdorff Center for Mathematics, Bonn, Germany
	hcm.uni-bonn.de/events/eventpages/2023/ws-noncomm/description/
2023	May 2 - May 5, 2023: Hausdorff School: Noncommutative Geometry and Operator Algebras,
	Hausdorff School of Advanced Studies in Mathematics, Bonn, Germany
	hsm.uni-bonn.de/events/hsm-schools/noncomm/description/
2022	July 11 - July 22, 2022: MSRI Metric Geometry and Geometric Analysis Graduate Summer School,
	University of Oxford, Oxford, UK.
	maths.ox.ac.uk/groups/topology/metric-geometry-and-geometric-analysis
2021	August 16 - 20, 2021: Noncommutative geometry meets topological recursion,
	University of Münster, Online
2020	June 28 - July 19, 2020: Groundwork for Operator Algebras Lecture Series,
	Michigan State University, Online
2019	December, 2019: K -theory and C^* -algebras,
	University of Hawai'i at Mānoa
2019	May 28 - June 1: Great Plains Operator Theory Symposium, Texas A&M University
2018	October 13 - October 14: East Coast Operator Algebras Symposium, Texas Christian University

Awards & Grants _____

2023 Uni	rsity of Hawai'i a	ıt Mānoa, Mathe	matics Departm	nent - Summer R	Lesearch Funding	- ;	\$3,500
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ARCS Foundation - Sarah Ann Martin Award in Mathematics 2023 - \$5,000

Mentorship ———

^{2021 - Pres.} University of Hawai'i at Mānoa Directing the Summer Qualifying Exam Practice for Algebraic Topology

Teaching ——

Course Instructor

2020 Summer: Math 100 - Survey of Mathematics

TEACHING/GRADING ASSISTANT

All done at the University of Hawai'i at Mānoa

Math 321 - Introduction to Proofs	Fall 2022
Math 301 - Introduction to Discrete Mathematics	Spring 2021
Math 307 - Linear Algebra and Differential Equations	Spring 2021
Math 253 - Honors Calculus III	Spring 2021, Spring 2022
Math 252 - Honors Calculus II	Spring 2022
Math 242 - Calculus II	Fall 2020, Fall 2021
Math 215 - Applied Calculus I	Fall 2019
Math 140 - Precalculus	Spring 2020