Hadrian Quan

University of Washington, Department of Mathematics C-418 Padelford Seattle, WA 98195-4350 U.S.A.

email: hadrianq@uw.edu

Education

2016-2021	РнD in Mathematics, University of Illinois Urbana Champaign
2015-2016	MA in Mathematics, University of Illinois Urbana Champaign
2011-2015	BA in Pure Mathematics (with Honors in the Major), University of California Santa Cruz

Grants, honors, & awards

Kuo-Tsai Chen Prize in Mathematics,

(Department prize for outstanding graduate research in geometry and analysis) UIUC

National Science Foundation Graduate Research Fellowship

Outstanding Presentation Award, San Antonio Joint Mathematics Meeting: MAA Undergraduate Poster Session, in the category of Analysis

Publications, Talks, & Conferences

JOURNAL ARTICLES

2015

2022

2022

2020

High energy resolvent estimates and the wave kernel on asymptotically complex hyperbolic manifolds

In preparation

The Calderón problem for the fractional Dirac operator

with G. Uhlmann.

https://arxiv.org/abs/2204.00965

Sub-Riemannian Limit of the differential form heat kernels of contact manifolds with P. Albin.

International Mathematics Research Notices

https://academic.oup.com/imrn/advance-article-abstract/doi/10.1093/imrn/rnaa270/5921740

Infinite Products Arising in Paperfolding with L. Almodóvar, V. Moll, F. Roman, E. Rowland, and M. Washington. Journal of Integer Sequences, vol. 19 (2016) Article 16.5.1

	TALKS
2022	UW Seattle Math, Rainwater Seminar
2020	"Fractional Dirac operators and geometric reconstruction" CRM Spectral Geometry in the Clouds (Young researchers in spectral geometry mini-conference), "The Heat Kernel of a Contact Manifold in the Sub-Riemannian Limit"
	Recording available here
2019	MSRI Microlocal Analysis Program (Graduate Student Seminar), "The Heat Kernel of a Contact Manifold in the Sub-Riemannian Limit"
2019	AMS Spring Eastern Sectional Meeting, (Special Session on Sub-Riemannian and CR geometric analysis), "Diabatic Limits of Heat Kernels on Contact Manifolds"
	Conferences and Workshops Attended
2019 2018	Mathematical Science Research Institute, "Microlocal Analysis", August 23-December 13 Banff International Research Station, "Asymptotically Hyperbolic Manifolds", May 13th to May 18th, 2018.
2016 2016	Casa Matematica Oaxaca, "Geometric and Spectral Methods in PDEs", December 11-15 Fields Institute, "Topology, Stratified Spaces, and Particle Physics Summer School", August 6-11
	Teaching & Grading
	AT UW SEATTLE
2021-2022	Instructor, Math 224 Advanced Multivariable Calculus Fall 2021, Winter 2022
	AT UIUC
2020 2018	TA, Math 415 Linear Algebra Fall 2020. TA, Math 285 Differential Equations Spring 2018, On the list of Teachers ranked as excellent
	by their students Grader, Math 525 Algebraic Topology Spring 2018.
2017	TA, Math 231 Calculus II Fall 2017, On the list of Teachers ranked as excellent by their students
2016	TA, Math 241 Calculus III, Spring 2016, On the list of Teachers ranked as excellent by their students
2015	TA, Math 241 Calculus III , Fall 2015, On the list of Teachers ranked as excellent by their students (Outstanding)
	Service
2019	Lead Organizer of the 17th Annual Graduate Student Topology and Geometry Conference (GSTGC
	2019), a conference with an attendance of 178+ graduate students, and featuring talks from 3 plenary speakers, 3 young faculty, and 28 graduate researchers
2016-2019	Illinois Geometry Lab Research Manager: Summer 2016-Present
2016-2017	UIUC Association for Women in Mathematics academic committee member: Organizer for Grad-
2016	uate Student Colloquium: Fall 2016-Spring 2017 Sonia Math Day for High School Girls-Helped lead the activity: An infinite stroll through Won-
2010 2000	derland. Academic Excellence Program (academic support for undergraduate STEM students from under-
2013-2015	readenine Excenence i rogram (acadenine support for undergraduate 31EW students from under-

represented groups in STEM), Section Co-leader: Facilitated collaborative group learning learning

problem sessions and peer mentoring for selected courses in math.