

Charles Stewart Hadfield

GENERAL	Nationality: New Zealander (birth)		charleshadfield.com
	French (naturalisation)		charles.hadfield@gmail.com
	Visa status: O-1 and Green Card in process		
	Date of Birth: June 1991		
EMPLOYMENT	IBM Quantum, New York 2020 - present		
	Applications Researcher/Mathematician, T.J. Watson Research Center		
	Rigetti Quantum Computing, Berkeley 2018 - 2019		
	Applications Researcher/Mathematician, Theory Division		
EDUCATION	University of California, Berkeley 2017 - 2018		
	Charles B. Morrey, Jr. Assistant Professor		
	École normale supérieure, Paris 2014 - 2017		
	Doctorate: Structures de Clifford paires et résonances quantiques		
SCHOLARSHIPS AND PRIZES	Supervisors: Colin Guillarmou, Andrei Moroianu		
	Université Pierre et Marie Curie, Paris 2013 - 2014		
	Master 2 Pure Mathematics		
	The University of Auckland 2010 - 2013		
LANGUAGES	Honours in Mathematics, July 2012 - June 2013		
	BSc majoring in Mathematics and Physics, 2010 - June 2012		
	Finalist for Rhodes Scholarship 2014 (one of seven New Zealand candidates)		
	Paris Graduate School of Mathematical Sciences International Scholarship, 2013 - 2014		
SPORT	Collins Prize in Mathematics (top student in Honours), 2013		
	Wacher Prize for Academic Head of School, Christ's College, 2009		
	HM Chrystall Prize for All-round Merit in Sport & Scholarship, Christ's College, 2009		
	First Prize in New Zealand Junior Mathematics Competition, 2006		
SPORT	Julia, Python		
	English (native), French (fluent), Spanish (tourist), Japanese (rusty)		
	2017 - 2019	Cal Sailing Club, Berkeley	
	2013 - 2017	Elite Level C.A.Montrouge Hockey, Paris	
SPORT	2010 - 2013	Premier Level Somerville Hockey Club, Auckland	
	2002 - 2012	Canterbury, Auckland, NZ Hockey Representative and Umpire	

PUBLICATIONS

Ruelle zeta function from field theory

arXiv:1611.01665, submitted, with S. Kandel and M. Schiavina

Zeta function at zero for surfaces with boundary

arXiv:1803.10982, submitted

Ruelle and quantum resonances for open hyperbolic manifolds

arXiv:1708.01200, IMRN

Local geometry of even Clifford structures on conformal manifolds

arXiv:1611.01665, Ann. Glob. Anal. Geom, with A. Moroianu

Resonances for symmetric tensors on asymptotically hyperbolic spaces

arXiv:1609.06527, Anal. PDE

Twistor spaces of Riemannian manifolds with even Clifford structures

arXiv:1602.04159, Ann. Glob. Anal. Geom, with G. Arizmendi

TALKS

Fermionic encodings; a workshop on the variational quantum eigensolver

January 2020, TJ Watson Research Center, New York

February 2020, Keio University, Tokyo

Dynamical zeta functions on surfaces with boundary

November 2019, UC Berkeley

Lectures on topological quantum error correction

July 2019, Rigetti Quantum Computing

A quantum/classical correspondence on hyperbolic manifolds

November 2017, Stanford University

Resonances on asymptotically hyperbolic manifolds; the ambient metric approach

March 2018, UC Santa Cruz

September 2017, Bay Area Microlocal Analysis Seminar

March 2017, Luminy

October 2016, Université d'Avignon

Géométrie hyperbolique et la fonction zeta de Selberg

February 2016, École normale supérieure

Dynamical zeta functions for Anosov flows, after Dyatlov, Zworski

May 2015, Peyresq

Espaces de twisteurs sur des variétés quaternion-kählériennes

June 2014, Université Pierre et Marie Curie

TEACHING

Honours Introduction to Complex Analysis

Spring 2018, 3rd year undergraduate, UC Berkeley

Introduction to Analysis

Spring 2018, 3rd year undergraduate, UC Berkeley

Introduction to Abstract Algebra

Fall 2017, 3rd year undergraduate, UC Berkeley

Introduction to Differential Geometry

Spring 2015, 3rd year undergraduate, Université Paris-Dauphine