

Braden Balentine — Curriculum Vitae

CONTACT INFORMATION	Department of Mathematics University of Colorado Boulder Boulder, CO 80309	braden.balentine@colorado.edu http://math.colorado.edu/~brba7903/ (512) 784-2304
RESEARCH INTERESTS	Partial Differential Equations, Differential Geometry, Harmonic Analysis, Semigroup Theory, Mathematical Physics	
EDUCATION	Department of Mathematics, University of Colorado Boulder Ph.D. in Mathematics, May 2021 <ul style="list-style-type: none">• Dissertation Title: <i>Well-posedness and Global Time Behavior for L^p-mild Solutions to the Navier-Stokes Equation on the Hyperbolic Space</i>• Advisor: Magdalena Czubak University of Texas B.S. in Physics with Honors, May 2014 B.S. in Mathematics with Honors, December 2013 B.A. in Scandinavian Studies with Honors, May 2008	
PUBLICATIONS & PREPRINTS	<i>Well-posedness and global in time behavior for L^p-mild solutions to the Navier-Stokes equation on the hyperbolic space</i> , 2020, https://arxiv.org/abs/2008.01850 <i>Global well-posedness and wave operators for the 2D Maxwell-Klein-Gordon equation in the Coulomb gauge</i> , (with Magdalena Czubak), 2021, In Preparation <i>The Fundamental Solution to the Stokes Equation on the Hyperbolic Space and L^p Estimates</i> , (with Chi Hin Chan and Magdalena Czubak), 2021, In Preparation	
PRESENTATIONS	Special Session on Recent Advances in the Theory of Fluid Dynamics, AMS Fall Western Sectional Meeting, University of Utah, October 26, 2020 Geometry & Analysis Seminar, University of Colorado Boulder, October 20, 2020 Dispersive PDE Learning Seminar, expository, Three Lectures, University of Colorado Boulder, Spring 2019 – Fall 2019, Slow Pitch Graduate Student Seminar, expository, University of Colorado Boulder, April 8, 2015	
CONFERENCES & WORKSHOPS ATTENDED	MSRI Summer Graduate School on “Recent Topics On Well-Posedness and Stability of Incompressible Fluid and Related Topics,” Berkeley, CA, 2019 Geometry & Analysis Day, University of Colorado Boulder, 2018 MSRI Summer Graduate School on “Nonlinear Dispersive PDE, Quantum Many Particle Systems, and the World Between,” Cortona, Italy, 2017 Shanks Workshop on Mathematical Aspects of Fluid Dynamics, Vanderbilt University, 2017	

HONORS AND
AWARDS

Graduate School Summer Fellowship, University of Colorado Boulder, Summer 2018

SERVICE

Referee for: Rocky Mountain Journal of Mathematics

Undergraduate Research Mentoring, REU, University of Colorado Boulder, Summer 2019

TEACHING
EXPERIENCE*Instructor of Record*

Summer 2021 MATH 2135 - Linear Algebra for Math Majors
 Summer 2015 MATH 1081 - Calculus for Business Majors

Instructor

Spring 2021 MATH 2400 - Calculus 3
 Fall 2020 MATH 2400 - Calculus 3
 Spring 2020 MATH 2400 - Calculus 3
 Spring 2019 MATH 2300 - Calculus 2
 Fall 2018 MATH 2400 - Calculus 3
 Spring 2018 MATH 2400 - Calculus 3
 Summer 2017 MATH 2300 - Calculus 2
 Spring 2017 MATH 1300 - Calculus 1
 Fall 2016 MATH 1300 - Calculus 1
 Summer 2016 MATH 1300 - Calculus 1
 Spring 2016 MATH 1300 - Calculus 1
 Fall 2015 MATH 1300 - Calculus 1

Teaching Assistant

Fall 2019 MATH 2300 - Calculus 2
 Fall 2017 MATH 2400 - Calculus 3
 Spring 2015 MATH 1081 - Calculus for Business Majors
 Fall 2014 MATH 1150 - Pre-Calculus

Grader

Spring 2021 MATH 6230 - Differential Geometry 1
 Spring 2021 MATH 4820/5820 - History of Mathematical Ideas
 Fall 2020 MATH 6350 - Functions of a Complex Variable
 Spring 2020 MATH 6230 - Differential Geometry 1
 Fall 2019 MATH 4001/5001 - Analysis II
 Fall 2017 MATH 4510/5510 - Introduction to Probability
 Spring 2017 MATH 4520/5520 - Introduction to Statistics
 Fall 2016 MATH 4510/5510 - Introduction to Probability
 Fall 2015 MATH 4510/5510 - Introduction to Probability