

Colin Roberts

Colorado State University
Department of Mathematics
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Fort Collins, CO 80523

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Education

Graduate Education

Colorado State University
Mathematics Ph.D. Program

Aug. 2017- Present
GPA: 3.924

Undergraduate Education

Colorado State University
Bachelor of Science
General Mathematics & Physics

Aug. 2017- May 2017

Published Works

2. Brooks Adams, Henry Adams, and Colin Roberts, *Sweeping Costs of Planar Domains*, In Erin W Chambers, Brittany T Fasy, and Lori S Ziegelmeier, eds., *Research in Computational Topology*, pages 71-92, AWM Springer series, volume 13, 2018.
 1. Jonathan Gilbert, Colin Roberts, and Jacob Roberts, *Near-Resonant Light Propagation in an Absorptive Spatially Anisotropic Ultracold Gas*, *Journal of the Optical Society of America B*, pages 718723, volume 25, number 4, 2018.
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Teaching

Instructor: Math 255, <i>Calculus for Biological Scientists II</i>	SP 2019
Instructor: Math 155, <i>Calculus for Biological Scientists I</i>	FA 2018
Instructor: Math 340, <i>Introduction to Ordinary Differential Equations</i>	SM 2018
Instructor: Math 160, <i>Calculus for Physical Scientists I</i>	SP 2018
Instructor: Math 161, <i>Calculus for Physical Scientists II</i>	FA 2017
Learning Assistant: PH 141, <i>Physics for Scientists and Engineers I</i>	FA 2015

Organization and Service

Founder/Organizer of the Mathematical Physics Lab	Aug. 2018 - Present
Co-organizer for the Greenslopes graduate seminar	Jan. 2019 - May 2019
President of the Society of Physics students Chapter at Colorado State University	Aug. 2016 - May 2017
Voting member for Physics for the College Council for the College of Natural Sciences	Aug. 2015 - Dec. 2016
Tutor for the physics department at Colorado State University	Mar. 2015 - May 2016

Research Talks

The Principle of Least Action and Variational Methods. Mathematical Physics Lab at Colorado State University, April 23rd, 2019.

Tensors and Exterior Algebra. Greenslopes graduate student seminar at Colorado State University, March 14th, 2019.

Special Relativity. Mathematical Physics Lab at Colorado State University, January 29th, 2019.

Incompressible Fluid Flow: Arnold's Geometrical Approach. Solving Problems in Applied Mathematics Seminar at Colorado State University, November 6th, 2018.

Introduction to Riemannian Geometry, Part 2. Mathematical Physics Lab at Colorado State University, October 16th, 2018.

Introduction to Riemannian Geometry, Part 1. Mathematical Physics Lab at Colorado State University, October 9th, 2018.

Awards and Honors

College of Natural Sciences Dean's List	Fall 2014, Fall 2015
Louis and Gladys Weber Scholarship	2016
Donovan B. and Sally S. Hicks Scholarship	2016
Colorado State Honors Scholarship	2012 - 2016
Western Undergraduate Exchange Scholarship	2012 - 2016

Professional Affiliations

Member: American Mathematical Society.

Member: Society for Industrial and Applied Mathematics.

Member: American Physical Society.

Member: American Association for Physics Teachers.

Member: Sigma Pi Sigma Honors Physics Fraternity.

Advisor

Name	Clayton Shonkwiler
Department	Colorado State Mathematics
Position	Assistant Professor
Contact	clayton.shonkwiler@colostate.edu

Committee

Name	Henry Adams
Department	Colorado State Mathematics
Position	Assistant Professor
Contact	henry.adams@colostate.edu

Name	Wolfgang Bangerth
Department	Colorado State Mathematics
Position	Professor
Contact	wolfgang.bangerth@colostate.edu

Name	Jacob Roberts
Department	Colorado State Physics
Position	Professor, Department Chair
Contact	Jacob.Roberts@colostate.edu