REBEKAH Y. JONES

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Education

PhD in Mathematics   Aug 2014 – July 2019
University of Cincinnati, Cincinnati, OH
    Dissertation Advisor: Nageswari Shanmugalingam
    Dissertation Title: *A characterization of quasiconformal maps in terms of sets of finite perimeter*

BS in Mathematics   Jan 2013 – July 2014
University of Cincinnati, Cincinnati, OH

Sacramento City College, Sacramento, CA   Aug 2010 – Dec 2012

Employment

University of Colorado Boulder, Boulder, CO   Aug 2024 – present
Teaching Assistant Professor

University of Colorado Boulder, Boulder, CO   Aug 2022 – May 2024
Teaching Postdoc

New College of Florida, Sarasota, FL   Aug 2019 – May 2022
Visiting Assistant Professor of Mathematics

Teaching Experience

At CU Boulder

- · Calculus 1 – Fall 2022

- · Calculus 2 – Fall 2022, Spring 2023, Summer 2023, Fall 2023, Spring 2024, Summer 2024 (online), Fall 2024, Spring 2025

- · Calculus 3 – Spring 2024, Fall 2024, Spring 2025

- · Linear Algebra for Non-Math Majors – Summer 2023

- · Intro to Complex Variables – Spring 2023

At New College of Florida

- · Calculus 1 – Fall 2019, Fall 2020, Fall 2021

- · Calculus 2 – Spring 2020, Spring 2021, Spring 2022

- · Partial Differential Equations – Spring 2022

- · Graph Theory – Fall 2021

· Linear Algebra – Spring 2021 (online)

· Geometry – Fall 2020 (online)

· Geometric Measure Theory – Spring 2020

· Point-Set Topology – Fall 2019

At University of Cincinnati

· Ordinary Differential Equations – Summer 2019 (online)

· Foundations of Quantitative Reasoning – Spring 2019 (flipped)

· Mathematics of Social Choice – Fall 2018

· College Algebra – Fall 2016

· Applied Calculus I – Spring 2016, Fall 2017

· Applied Calculus II – Summer 2016

Other Teaching Activities

Curriculum Development, Calculus sequence, CU Boulder   Fall 2023, Summer 2024
with Harrison Stalvey, Andrew Meier, Lee Roberson, Joseph Timmer, Kevin Manley and Jack Dalton

Course Coordinator, Calculus 2, CU Boulder   Fall 2023, Spring 2024

Independent Study Project, *Measure Theory*, New College of Florida   Spring 2022

Service

Chair, Special Interest Group of the MAA on Inquiry-Based Learning   Jan 2025 – present
(Chair Elect, Jan 2024 – Dec 2024)

Organizer, Seminar in Undergraduate Math Education, CU Boulder   Fall 2023 – present

Faculty advisor, Math Club, CU Boulder   Fall 2024 – present

Member, Diversity Committee, CU Boulder   Fall 2024 – present

Secretary of the Faculty, New College of Florida   Spring 2022

President, Mathematics Graduate Student Association, U. of Cincinnati   Fall 2018 – Spr 2019

Member, Graduate Association for Teaching Enhancement, U. of Cincinnati   2018 – 2019

Research Publications

R. Jones, P. Lahti and N. Shanmugalingam, "Modulus of families of sets of finite perimeter and quasiconformal maps between metric spaces of globally Q-bounded geometry". *Indiana University Mathematics Journal* **69**, no. 1, Special Issue (2020), pp. 265–293. arXiv:1806.06211 [math.MG].

R. Jones and P. Lahti, "Duality of Moduli and Quasiconformal Mappings in Metric Spaces". *Analysis and Geometry in Metric Spaces* **8**, no. 1 (2020), pp. 166–181. arXiv:1905.02873 [math.MG]

Research Experience

AMS Mathematics Research Group: Analysis in Metric Spaces   Aug 2020 – June 2021
A professional development program to promote collaborative research among early career mathematicians

Research stay at Linköping University Mathematics Department   Mar – Jun 2017, Feb – May 2018

Seminars & Colloquia

Seminar on Undergraduate Math Education at CU Boulder   23 Feb 2024
Developing Effective Active Learning Materials

Mathematics Colloquium at Ball State University   29 Nov 2018
Modulus of families of sets of finite perimeter and quasiconformal maps between metric spaces of globally Q-bounded geometry.

Analysis Seminar at Kenyon College   12 Nov 2018
Functions of bounded variation and sets of finite perimeter.

Analysis Seminar at Linköping University   28 Feb 2018
Dimension distortion of sets of finite perimeter under a quasisymmetric map in a metric space.

Conference Talks

Mathematics Continued Conference: An Undergraduate Conference   25 Oct 2020
hosted virtually by University of Connecticut
Sets of Finite Perimeter.

Geometric and Harmonic Analysis 2019: A Conference for Graduate Students   28 Mar 2019
at University of Connecticut
Modulus of families of sets of finite perimeter and quasiconformal maps between metric spaces of globally Q-bounded geometry.

AMS Spring Central and Western Joint Sectional Meeting   22 Mar 2019
at University of Hawaii at Manoa
Modulus of families of sets of finite perimeter and quasiconformal maps between metric spaces of globally Q-bounded geometry.

AMS Fall Eastern Sectional Meeting   29 Sep 2018
at University of Delaware
Modulus of families of sets of finite perimeter and quasiconformal maps between metric spaces of globally Q-bounded geometry.

Workshops, Panels & Session Organization

Co-organizer, *Inquiry-Based Learning Contributed Paper Session*, Math Fest 2024 — 8–9 Aug 2024

Panelist, *Academic Job Panel*, hosted by the Diversity Committee and Math for All, CU Boulder — 19 March 2024

Participant, *Chart Your Course Training Workshop*, New College of Florida — 19–21 July 2021
Redesigned Calculus 1 to fit new general education curriculum guidelines

Co-facilitator (with Ben Merritt, Crystal Whetstone and Pieter-Jan Van Camp), *Teach me to Teach Workshop*, hosted by the Center for the Enhancement of Teaching & Learning, University of Cincinnati — 1 May 2019

Presenter, "Work-Life Balance," *Get up and Go! Workshop*, hosted by the Graduate Association for Teaching Enhancement, University of Cincinnati — 23 Jan 2019

Professional Affiliations

American Mathematical Society (AMS) · Mathematical Association of America (MAA) · Association for Women in Mathematics (AWM) · Special Interest Group of the MAA on IBL (SIGMAA IBL)

Technology

Online Learning Platforms: WebAssign, WileyPLUS, MyLab Math, Launch Pad

Learning Management Systems: Blackboard, Canvas

Programming: LaTeX, Mathematica (basic)