

# ERIC RECKWERDT

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## — WORK EXPERIENCE —

- Lecturer 2020–present  
University of Colorado at Boulder, Department of Computer Science
- Postdoctoral Associate 2018–2020  
University of Colorado at Boulder, Department of Computer Science
- Assistant Professor 2016–2018  
Institute of Mathematics of the Polish Academy of Sciences
- Teaching Assistant 2012–2016  
University of Hawai'i at Mānoa Department of Mathematics
- Instructor summer 2011  
Ethnomathematics Calculus Summer Institute
- SUPER-M Fellow 2010–2012  
NSF GK-12 Grant
- Assistant Language Teacher 2007–2008  
Nagasaki Prefecture School District

## — EDUCATION —

- PhD in Mathematics 2016  
University of Hawai'i at Mānoa  
Thesis: *Weak Amenability is Stable Under Graph Products*  
Advisor: Prof. Erik Guentner
- Bachelor of Science 2007  
University of Puget Sound  
Majors: Mathematics and Asian Studies

## — RESEARCH INTERESTS —

Operator algebras, tensor network theory, geometric group theory, and approximation algorithms.

## — PUBLICATIONS —

- Relatively hyperbolic groups, weak amenability,  
and affine  $L^p$ -actions 2019  
with Erik Guentner and Romain Tessera. Submitted to the Annales de l'Institut  
Fourier.
- On complements of Kazhdan projections in  
semisimple groups 2017

with Piotr Nowak. *Studia Mathematica* Volume 246, Issue 1 October 2017.  
Preprint available at [arxiv.org/abs/1710.03259](https://arxiv.org/abs/1710.03259).

Weak amenability is stable under graph products 2015

*Journal of the London Mathematical Society* Volume 96, Issue 1 August 2017.  
Preprint available at [arxiv.org/abs/1511.04645](https://arxiv.org/abs/1511.04645).

— TEACHING AND MENTORING —

*Regular teaching*

Currently teaching CSPB3104: Algorithms for CU Boulder's Post Baccalaureate online program. Previously taught Precalculus and a two semester math for elementary teachers sequence.

*As teaching assistant*

Graded and led recitation sessions for Calculus I & II.

*Under the SUPER-M GK-12 Grant*

Assisted at August Ahrens Elementary School and Ke Kula Ni'ihau O Kekaha Charter School. Prepared lesson plans, helped confused students, and designed math activities. Also prepared and led math activities for community-wide math and science events. An example activity may be found at [www.youtube.com/watch?v=SgqGtEag5KQ](https://www.youtube.com/watch?v=SgqGtEag5KQ).

*With the Math Teachers' Circle of Hawai'i*

Led 50+ K12 teachers in exploratory math sessions once a month for an academic year.

*For the Ethnomathematics Calculus Summer Institute*

Mentored preservice teachers in designing mathematical lesson plans which focus on local culture and history.

*At the Institute of Human Services Hawai'i*

Tutored and led math activities for children at a homeless shelter.

— INVITED TALKS —

Weak amenability of relatively hyperbolic groups Feb 8 2017

University of Copenhagen operator algebra seminar

— CONFERENCES ATTENDED —

Tensors: Algebra - Computation - Applications June 2019

CU Boulder, CSU Rocky Mountain Campus

Workshop on Operator Algebras, Geometry, and Actions Sept. 2017

IMPAN

Young Mathematicians in  $C^*$  Algebras Aug. 2017

University of Copenhagen

Asymptotic Decomposition Methods in Geometry, Dynamics and Operator Algebras March 2017

University of Southampton

Noncommutative Geometry The Next Generation (Simons Semester) IMPAN	<i>Sep.–Nov. 2016</i>
Noncommutative Dimension Theories: Connections and Applications University of Hawai'i	<i>Nov. 2015</i>
Fall School "Metric Embeddings: Constructions and Obstructions" Institut Henri Poincaré	<i>Nov. 2014</i>
AMS Sectional University of Hawai'i	<i>March 2012</i>
Geometry and Analysis of Large Networks Vanderbilt University	<i>March 2012</i>
How to Run a Math Teachers' Circle American Institute of Mathematics	<i>June 2010</i>

November 19, 2020