

BELLA TOBIN

University of Hawai'i at Mānoa ◊ 2565 McCarthy Mall ◊ Honolulu, HI 96816

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EDUCATION

University of Hawai'i at Mānoa

Ph.D in Mathematics, 2019

2013-2019

Thesis Advisor: Prof. M. Manes

University of Vermont

B.S. in Mathematics, 2013

2009-2013

RESEARCH INTERESTS

Arithmetic Dynamics, Number Theory, Dynamical Systems, Algebra

PUBLICATIONS

Dessins d'Enfants for Single-Cycle Belyi Maps

with Michelle Manes and Gabrielle Melamed, in *Women in Numbers Proceedings*, in press

Zsigmondy Operator on the Space of Sequences

with TJ Combs, Erik Holmes, Michelle Manes, and Elliot Ossanna, in preparation

Dynamics of Bi-critical Rational Functions, in preparation

TEACHING EXPERIENCE

University of Hawai'i at Mānoa, 2013-2019

Courses Taught:

- Calculus I (Math 241)
- Math for Elementary School Teachers Sequence (Math 111 & 112), traditional and online
- Precalculus: Elementary Functions (Math 134/135)
- Survey of Mathematics (Math 100)

RESEARCH EXPERIENCE

Research Assistant, University of Hawai'i at Mānoa, Summer 2017

SYNERGISTIC ACTIVITIES

- AMS, AWM, MAA member
- K-12 curriculum development for Hawai'i Department of Education
- Founder and President of the AMS Graduate Student Chapter at the University of Hawai'i at Mānoa
- Math Mentor for high school students interested in STEM

- Organized a math and science activity fair, "Be A Scientist Night" at the Institute for Human Services in Honolulu
- Created activities for, and volunteered, at the Institute for Astronomy open house
- Volunteered at the Leeward Community College Discovery Fair
- Reviewed math learning activities for schools with large native Hawaiian populations
- Sage development, `bdd.height`, added Doyle-Krumm Algorithm (with TJ Combs and Erik Holmes)

CONFERENCES & WORKSHOPS ATTENDED

AWM Research Symposium 2019, Houston, Speaker

HINT, University of Hawai'i at Mānoa, March 2019

AMS Spring Central and Western Joint Sectional Meeting, Speaker, University of Hawai'i at Mānoa, April 2019

CTNT Workshop & Conference, Connecticut, May 2018

Hawaii Partnerships for Education HICAN Summit, Hawaii, April 2016

Galileo Teacher Training Program, Hawaii, August 2015

RTG Workshop on Arithmetic Dynamics, University of Michigan, December 2015