Charles Godfrey

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• Completed the eScience Institute's Advanced Graduate Data Science Option **B.S. in Mathematics and Physics**, The University of Wisconsin-Madison

May 2014

Academic positions_

Program Associate, Mathematical Sciences Research Institute

March-May 2019

• Participated in the Birational Geometry and Moduli Spaces research program

Awards

Department of Mathematics Graduate Fellowship, The University of Washington-Seattle 2018-2019 **Publications and preprints**

[1] Spr. 2017. Thrifty Rational Resolutions in Arbitrary Characteristic (Master's Thesis). URL: math. washington.edu/~cgodfrey/assets/pdfs/thrift_ratl.pdf.

Talks

- [1] Spr. 2019a. "Logarithmic Chow-to-Hodge Cycle Maps" (Mathematical Sciences Research Institute Graduate Student Seminar).
- [2] Sum. 2019b (with Kapila Kottegoda, Oliver Knitter, and Yunpeng Shi). "Survey of Linear Stochastic Bandits" (MSRI Mathematics of Machine Learning Summer School).
- [3] Aut. 2018. "The Cohomology of a Smooth Hypersurface" (The University of Washington Graduate Student 1, 2, 3 Seminar).
- [4] Win. 2017. "The Cone of Curves" (The University of Washington Graduate Student MMP Seminar).

Teaching_

Pre-doctoral Teaching Assistant, The University of Washington-Seattle September 2014-present

- Main instructor: Introduction to Differential Equations, Calculus I, Calculus III, Algebra with Applications, Introduction to Mathematical Reasoning, Graduate Prelim Exam Practice Course
- Teaching assistant: Pre-Calculus, Calculus I-III, Linear Algebra
- · Grader: Graduate Abstract Algebra

Graduate Mentor, Washington Experimental Math Laboratory January-June 2019, March-June 2020

- Mentored a undergraduate research projects on topics such as the foundations of quantum mechanics and mathematical epidemiology
- Faculty Mentors: Jarod Alper, Benjamin Feintzeig

Other research experience_

Research Experience, The University of Minnesota School of Physics and Astronomy Summer 2013

- Designed and performed experiments using the BL21Rosetta2 strain of *E. coli* in the context of synthetic biology. Used MATLAB for to solve differential equations modelling genetic circuits
- Principal Investigator: Vincent Noireaux

Extracurricular_

Electric Bassist, Look At Me's, Young Chhaylee

Spring 2016-present

- Electric bass in rock, R&B, neo-soul and singer-songwriter styles, writing bass lines to original songs
- Venues performed at: Doe Bay Fest 2019, Timbrrr! Music Festival 2019, The Tractor Tavern, The High Dive, The Sunset Tavern, The Columbia City Theater, Barboza.