Charles Godfrey

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Education

PhD in Mathematics, The University of Washington-Seattle June 2021 (expected) • Advisor: Sándor Kovács • Thesis: Residue triangles and resolutions of pairs • 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

- 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

• Grader: Graduate Abstract Algebra

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.