Charles Godfrey

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Education

PhD in Mathematics, The University of Washington-Seattle — June 2021 (expected)

- Advisor: Sándor Kovács
- Thesis: *Higher direct images of logaritmic structure sheaves*
- Completed the eScience Institute's Advanced Graduate Data Science Option

MS in Mathematics, The University of Washington-Seattle — June 2018

- Advisor: Sándor Kovács
- General exam paper: *Thrifty rational resolutions in arbitrary characteristic*

BS 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] 2018. *Thrifty Rational Resolutions in Arbitrary Characteristic (General Exam Paper)*. URL: math.washington.edu/~cgodfrey/assets/pdfs/thrift_ratl.pdf.

Talks

[2] Spr. 2019a. "Logarithmic Chow-to-Hodge Cycle Maps" (Mathematical Sciences Research Institute Graduate Student Seminar).
[3] Sum. 2019b (with Kapila Kottegoda, Oliver Knitter, and Yunpeng Shi). "Survey of Linear Stochastic Bandits" (MSRI Mathematics of Machine Learning Summer School).
[4] Aut. 2018. "The Cohomology of a Smooth Hypersurface" (The University of Washington Graduate Student 1, 2, 3 Seminar).
[5] 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 for undergraduates Summer 2013
The University of Minnesota School of Physics and Astronomy

- 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

Other work experience

Editorial Page Editor, The Badger Herald September 2012-December 2013

- Recruited new writers, and worked with writers to create locally relevant content for the Opinion page. Edited and formatted columns and letters to the editor, and wrote regular columns and editorials
- Member of the Badger Herald Editorial Board
- The Badger Herald is the largest independent student newspaper in the United States