

Dora Woodruff

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Undergraduate Education

Harvard College

2020-2024

Mathematics Concentrator GPA: 4.000/4.000 (out of 4.000)

Secondary in Linguistics

- Mathematics Courses: Math 55a (abstract/linear algebra, representation theory), Math 55b (real/complex analysis, topology), Math 231a and Math 231br (graduate level algebraic topology courses), Math 18.510 (set theory and logic at MIT), Math 114 (measure theory and functional analysis), Math 137 (algebraic geometry), Math 129 (algebraic number theory)
- Selected Miscellaneous Courses: Stat 110 (probability), Stat 111 (statistical inference)

Research Experience

Variants of the Unit Distance Problem

Summer 2021

Baruch College REU

- Gave talk at several conferences; our paper is currently under review

Hyperbolic Knot Theory

Summer 2022

Williams SMALL REU

Work Experience

Course Assistant

2021-2022

Math 55a and 55b, Harvard University

Math 114, Harvard University

- Work as a Course Assistant, grade psets, hold office hours and sections, etc.

Awesomemath Teaching Assistant

Summer 2020

- TA for five 3-week courses in advanced geometry and combinatorics courses

New York Math Circle Teaching Assistant

Summer 2019/20200

- TA'd advanced high school topics such as projective geometry, introductory abstract algebra, combinatorics, etc

Selected Extracurricular Activities

DRP (Directed Reading Program)

2021

Harvard Mathematics Department

- Reading project in Young Tableaux and representation theory (spring 2021), Fourier analysis in combinatorics (fall 2021), and introduction to schemes (spring 2022)

Advanced Oboist

- Attended music school at Mannes, attended music camps at Kinhaven and Interlochen, play in several groups at Harvard (Bach Society Chamber Orchestra, Harvard College Opera, etc)
- Board member of Harvard College Opera, Executive Board member of Harvard Ballet Orchestra, Board member of the Gilbert and Sullivan players and orchestra producer for *Iolanthe* (fall 2022)