

# Dora Woodruff

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## Education

### Harvard College; 2020-2024

*Mathematics Concentrator* GPA: 4.0/4.0

*Secondary in Linguistics*

- One of 24 Harvard juniors elected to Phi Beta Kappa (2023)
- Detur Prize recipient (2022)

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## Research

### Baruch College REU: 2021

- Worked on a project in discrete geometry and combinatorics mentored by Nora Frankl
- Resulting paper published in *Discrete and Computational Geometry* (title: *On Some Nonrigid Unit Distance Patterns*), also available on the ArXiv

### Williams SMALL REU: 2022

- Participated in Colin Adams's knot theory group
- Our papers, *Hyperbolic Knotoids* and *Generalized Knotoids*, are available on the ArXiv and submitted

### UMN Algebra and Combinatorics REU: 2023

- One project with Pasha Pylyavskyy on cluster monomials in Laurent phenomenon algebras
- One project with Daoji Huang on Young tableaux and simplicial complexes
- Papers still in progress; meanwhile our reports on the UMN REU website contain most results

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## Teaching Experience

### Course Assistant at Harvard University; 2021-present

Math 55a and 55b (first year honors course in algebra and analysis)

Math 114 (measure theory and Lebesgue integration)

Math 123 (Ring theory and Galois theory)

Math 131 (introductory algebraic topology)

### *Awesomemath* Teaching Assistant; 2020

### New York Math Circle Teaching Assistant; 2019-2020

### Girl's Angle Mentor, 2023-present

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## Selected Extracurricular Activities

### Math Department Involvement

- Co-President of *Harvard Undergraduate Gender Inclusivity In Mathematics* (2023)
- Participant in Harvard's Directed Reading Program for five semesters
- Undergraduate representative on the math department's Community Committee

### Miscellaneous

- Advanced oboist; I play in and help run many musical groups (Bach Society Orchestra, Harvard College Opera, Gilbert and Sullivan Players, etc)