CHRISTOPHER JOSEPH DECKER DOWD

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EDUCATION

University of California, Berkeley	2022-present
Mathematics PhD Student	
Advisor: Sug Woo Shin	
Research Interests: Number theory, arithmetic geometry, abelian varieties, <i>p</i> -div	visible groups, <i>p</i> -adic Hodge
University of Cambridge	2021-2022
Part III of the Mathematical Tripos	
Master of Advanced Studies in Mathematics	
Graduated with Distinction	
Harvard University	2017 - 2021
Bachelor of Arts	Overall GPA: 3.96
Concentration: Mathematics	
Secondary: Music	
Magna cum Laude with Highest Honors in Field	
Thesis: On parameterizations of cyclic N-isogenies and strict K-curves lying above Thesis advisor: Prof. Noam D. Elkies	we points on $Y_0(N)$
San Francisco University High School	ØN19 ØN17
San Francisco Oniversity High School	2013-2017
AWARDS	

NSF Research Training Group Grant in Number Theory and Arithmetic Geometry	Spring 2023
Herchel Smith Fellowship	2021-2022
• Full scholarship for Cambridge Part III	
Harvard College Research Program (HCRP) Wolansky Fund fellowship grant	2020
John Harvard Scholar	2020
NSF Research Experience for Undergraduates (REU) Scholarship	2019

RESEARCH EXPERIENCE

Some items have been intentionally omitted on the public version of this resume. These items will be included in any privately submitted versions.

University of Minnesota	Minneapolis, MN
Mathematics REU Participant	Summer 2019

- Arborescences of Covering Graphs. Algebraic Combinatorics, Volume 5 (2022) no. 2, pp. 319-346. With Sunita Chepuri, Andy Hardt, Gregory Michel, Sylvester W. Zhang, and Valerie Zhang.
 - Poster presentation: University of Illinois Chicago Undergraduate Mathematics Symposium, November 2, 2019.
- Virtual Resolutions of General Points in Smooth Fano Toric Varieties. With Sean McNally.

Harvard Department of Mathematics

Harvard College Research Program

- Topics: Elliptic curves, modular forms, arithmetic statistics
- Research Advisor: Fabian Gundlach, Ph.D.

TEACHING EXPERIENCE

UC Berkeley Departement of Mathematics	
Graduate Student Instructor	Fall 2022, Fall 2023
• Multivariable Calculus	
• Linear Algebra	
Reader	Spring 2024
• Number Theory (Abelian Varieties with Complex Multiplication)	
• Complex Manifolds	
Harvard Department of Mathematics	
Course assistant	2019-2021
• Abstract algebra, commutative algebra, algebraic geometry, combinatorics, nur	nber theory
• Two-time recipient of a Certificate in Distinction in Teaching	
SERVICE	
UC Berkeley Department of Mathematics Organizer: UC Berkeley Undergraduate Number Theory Symposium Mentor: UC Berkeley Directed Reading Program	April 2023 Spring, Fall 2023
Harvard Undergraduate Mathematics Association Volunteer Mentor: Math Online Reading Program for High Schoolers (MORPH)	Summer 2020
• Student-run mentorship program targeted to advanced high schoolers interested	d in higher math
• Group mentor for number theory and ring theory	
Harvard Visitas Program	Spring 2020, 2021
• Volunteer panelist for prospective freshmen	
Organizer/Speaker: Harvard Undergraduate Mathematics Colloquium (Math Table)	2018-2019
CONFERENCES ATTENDED	
Arizona Winter School	March 2023, March 2024
ISM Discovery School: Langlands Correspondence for Spherical Varieties	October 2023
University of Illinois Chicago Undergraduate Mathematics Symposium	November 2, 2019
OTHER LEADERSHIP AND ACTIVITIES	
Harvard Glee Club	2017-2021

Harvard Glee Club Bass I, Financial Manager, Davison Fellow

All-Saints Church, Ashmont Harvard Glee Club Davison Fellow Summer 2020

• Assistant and performer for the choir of men and boys

Harvard New Music Initiative

- Selected for competitive student choral composition program
- Debut of original work by the Radcliffe Choral Society, New Voices Rising Concert, April 4, 2019
- Francis Boott Prize for choral composition recipient

SKILLS AND INTERESTS

Programming/computational languages: Python, C, Java, Macaulay 2, Sage, Pari-GP, Mathematica **Other interests**: Classical and choral music composition, choral singing, chess, épée fencing, running