

CONTACT INFORMATION	Evans Hall University Dr, Berkeley, CA 94720	Homepage: http://math.berkeley.edu/~chd/ E-mail: chd@berkeley.edu	
RESEARCH	<ul style="list-style-type: none"> • Algebraic and arithmetic geometry, algebraic number theory. 		
EDUCATION	<p>University of California at Berkeley, Berkeley, CA</p> <ul style="list-style-type: none"> • Ph.D. in Mathematics. <p>Cambridge University, Cambridge, UK</p> <ul style="list-style-type: none"> • Master of Advanced Study in Mathematics. <p>Yale University, New Haven, CT</p> <ul style="list-style-type: none"> • B.Sc. in Mathematics, GPA: 3.97/4.00, <i>summa cum laude</i>, Phi Beta Kappa. • Undergraduate Thesis: A Database of Cubic Fourfolds over \mathbb{F}_2, advised by Asher Auel. <p>Oxford University, Oxford, UK</p> <ul style="list-style-type: none"> • Registered Visiting Student 	<p>2025 (expected)</p> <p>2020</p> <p>2019</p> <p>2017-2018</p>	
PUBLICATIONS	<ol style="list-style-type: none"> 1. (with Ascher, Gershenson, Hou) Enumerating Hassett's wall and chamber decomposition of the moduli space of weighted stable curves, arxiv, <i>Experimental Mathematics</i>, 29, 36-53 		
TEACHING EXPERIENCE	<ul style="list-style-type: none"> • UC Berkeley, Graduate Student Instructor <ul style="list-style-type: none"> ◦ (Planned) Spring 2021: GSI/Lecturer for Math 191 (Special Topics in Mathematics) ◦ Fall 2021: GSI/Lecturer for Math 113 (Abstract Algebra) ◦ Spring 2021: GSI for Math 10B ◦ Fall 2020: GSI for Math 10A • MathILy, intensive IBL residential summer mathematics program for high-school students <ul style="list-style-type: none"> ◦ Apprentice Instructor, remote instruction ◦ Apprentice Instructor, in-person instruction • Undergraduate Learning Asst., Discrete Mathematics for Computer Science, Yale 		<p>2020</p> <p>2019</p> <p>2018</p>
FELLOWSHIPS AND AWARDS	<ul style="list-style-type: none"> • John Alan Lewis Summer Research Fellowship, Yale • Fellow's Prize, Jonathan Edwards College, Yale 		
TALKS	<ul style="list-style-type: none"> • <i>Construction of Quot schemes</i>. Student Arithmetic Geometry Seminar, University of California, Berkeley CA, 24 Sept. 2021. • <i>Base change and the q-expansion principle</i>. Student Number Theory Seminar, University of California, Berkeley CA, 15 Sept. 2021. • <i>Modular forms and q-expansions in algebraic geometry</i>. Student Number Theory Seminar, University of California, Berkeley CA, 8 Sept. 2021. • <i>Enumerating Hassett's decomposition of the moduli of curves</i>, with Daniel Gershenson and Elaine Hou. MAA Student Paper Session, MathFest, Chicago, IL, 2017. • <i>Simplicial Complexes and Effective Divisors on $\overline{M}_{0,n}$</i>, with Jocelyn Wang and Nick Wawrykow. MAA Student Paper Session, MathFest, Columbus, OH, 2016. 		
RESEARCH PROGRAMS AND WORKSHOPS	<ul style="list-style-type: none"> • Summer Undergraduate Mathematics Research at Yale Advised by Kenneth Ascher. • Summer Undergraduate Mathematics Research at Yale Advised by Jose Gonzalez. 	<p>Summer 2017</p> <p>Summer 2016</p>	
TECHNICAL SKILLS	<ul style="list-style-type: none"> • <i>Languages</i>: English, French, Python, C/C++, LaTeX, SageMath, MAGMA. 		