

Joshua Goldstein

EDUCATION	Texas A&M University , College Station, TX	Sept. 2019 - May 2026
	<i>PhD in Mathematics; Advisor: Dr. Joseph Maurice Rojas</i> <i>Co-advised with Dr. Juan Garay (Computer Science & Engineering)</i> <i>Thesis: New Explicit Bounds in p-adic Fewnomial Theory</i>	
	Swarthmore College , Swarthmore, PA	Sept. 2013 - May 2017
	<i>B.A. in Mathematics with Honors; Minor in Chemistry</i>	
	Budapest Semester in Mathematics	Spring 2016
PUBLICATIONS	Danushka Liyanage, Shubham Pandey, Joshua Goldstein, Michael Cahill, Akon Dey, Alan Fekete, Uwe Röhm, <i>A Benchmark for Databases with Varying Value Lengths</i> . TPCTC 2025. Lecture Notes in Computer Science, vol 16261. Springer, Cham. https://doi.org/10.1007/978-3-032-18070-4_1 (2026).	
	Joshua Goldstein, J. Maurice Rojas, Henry Stone, Arnaldo Vera, <i>New Explicit Root Counts for p-adic Circuit Systems</i> . Proceedings of ISSAC 2025, to appear in ACM Communications in Computer Algebra (2026).	
	Peter J. Collings, Joshua Goldstein, et al., <i>The nature of the assembly process in chromonic liquid crystals</i> , Liquid Crystals Reviews, 3:1, 1-27 (2015). https://doi.org/10.1080/21680396.2015.1025305 .	
WORK EXPERIENCE	Dgraph Labs (Palo Alto, CA) <i>Software Engineer (Remote)</i>	May 2022 - Jan. 2024
TEACHING EXPERIENCE	MATH 151H: Engineering Math I (Honors) <i>Teaching Assistant</i> Instructor: Dr. Andrea Welsh, TAMU	Aug. 2025 - Dec. 2025
	MATH 151: Engineering Mathematics I <i>Teaching Assistant</i> Instructor: Dr. Sang Rae Lee, TAMU	Aug. 2024 - Dec. 2024
	TAMU Math Circle <i>Instructor & Graduate Student Organizer</i> Advisor: Dr. Phillip Yasskin, TAMU	Sept. 2020 - Aug. 2022
	TAMU REU in Algorithmic Algebraic Geometry <i>Research Mentor</i> Advisor: Dr. J. Maurice Rojas, TAMU	June 2022 - July 2022
	MATH 152: Engineering Mathematics II <i>Teaching Assistant</i> Instructor: Kris Watkins, TAMU	Jan. 2022 - May 2022
	TAMU REU in Algorithmic Algebraic Geometry <i>Research Mentor</i> Advisor: Dr. J. Maurice Rojas, TAMU	June 2021 - July 2021
	SEE Math 2021 <i>Instructor & Graduate Student Organizer</i> Advisors: Dr. Phillip Yasskin and David Manuel, TAMU	July 2021
	High School of Mathematics (Varna, Bulgaria) <i>English Teaching Assistant, Fulbright Grantee</i>	Sept. 2017 - June 2018
GRADING	MATH 415: Modern Algebra I (Dr. Peter Stiller)	Spring 2026
	MATH 673: Foundations of Cryptography (Dr. J. Maurice Rojas)	Summer 2025

	MATH 442: Mathematical Modeling (Dr. Prabir Daripa)	Spring 2024
	MATH 442: Mathematical Modeling (Dr. Prabir Daripa)	Fall 2023
	MATH 442: Mathematical Modeling (Dr. Prabir Daripa)	Spring 2023
	MATH 140: Math for Business and Social Sci. (Kenneth Small)	Summer II 2020
	MATH 308: Differential Equations (Dr. Marco Roque-Sol)	Summer I 2020
	MATH 308: Differential Equations (Dr. Mariya Vorobets)	Spring 2020
	MATH 300: Foundations of Mathematics (Dr. Boris Hanin)	Fall 2019
OUTREACH	TAMU Math & Stat. Fair, <i>Volunteer</i>	February 2021
	TAMU High School Math Contest, <i>Volunteer</i>	Oct. 2020
	ABC House at Strath Haven, <i>Resident Tutor</i>	Sept. 2016 - June 2017
	Bridge to Enter Advanced Mathematics, <i>T.A. and Counselor</i>	July 2015
HONORS AND AWARDS	Fulbright ETA Grant (Bulgaria)	Sept. 2017 - June 2018
	Mary McCusker Niemczewski Endowed Scholarship	Sept. 2014 - May 2017
CONFERENCE TALKS	<i>Near-optimal bounds for the number of p-adic roots of circuit systems</i>	
	SIAM Texas-Louisiana Sectional Meeting (Nov. 4, 2023)	
	University of Louisiana at Lafayette	
	<i>On Extremal Trinomials over the p-adic Rationals</i>	
	SIAM Texas-Louisiana Sectional Meeting (Nov. 6, 2021)	
	University of Texas, Rio Grande Valley; South Padre Island, Texas	
	<i>Games in Math Circles: The TAMU Math Circle Apps Website</i>	
	Presented with Dr. Phil Yasskin (TAMU) and Carl Van Huyck (JRMF)	
	MAA MathFest 2021 (Aug. 6, 2021)	
PROFESSIONAL TRAVEL	ISSAC 2025 (Guanajuato, Mexico)	July 28 - Aug. 1, 2025
	Foundations of Probabilistic Proofs (Zürich, Switzerland)	July 17-28, 2023
	Joint Mathematics Meetings (AMS / MAA, Online)	Jan. 6-9, 2022
	Real Polynomials: Counting and Stability (BIRS, Online)	Oct. 17-22, 2021
	MAA MathFest (Online)	Aug. 4-7, 2021
	Gathering in Graduate Expository Mathematics (Texas A&M)	March 27, 2021
	Texas Geometry and Topology Conference (Texas A&M)	Nov. 8 - 10, 2019
	Şirince Commutative Algebra Workshop (İzmir, Turkey)	May 2019
	Antalya Algebra Days XXI (İzmir, Turkey)	May 2019
	Group Theory in Ankara (METU; Ankara, Turkey)	May 2-3, 2019
	Ali Nesin Mathematics Village (İzmir, Turkey)	June - August 2018
REFERENCES	Prof. J. Maurice Rojas (Texas A&M)	
	Prof. Phillip Yasskin (Texas A&M)	
	Prof. Matt Papanikolas (Texas A&M)	
	Prof. Grigoris Paouris (Texas A&M)	