

EDUCATION	<p><b>University of California, Berkeley</b> 2025- PhD in Mathematics.</p> <p><b>University of Cambridge</b> 2024-2025 Master of Advanced Studies in Pure Mathematics, graduated with Distinction. Funded by Churchill Scholarship.</p> <p><b>Williams College</b> 2019-2024 BA in Mathematics and Computer Science, GPA 3.94/4.00. Magna Cum Laude, Highest Honors in Mathematics.</p>
RESEARCH EXPERIENCE	<p><b>Williams College</b> September 2022 – August 2023 Undergraduate thesis work in analytic number theory under Steven J. Miller.</p> <p><b>University of Virginia</b> June 2022 – July 2022 Research in analytic number theory under Ken Ono and Jesse Thorner.</p> <p><b>Williams College</b> June 2021 – August 2021 Research in analytic number theory and random matrix theory under Steven J. Miller.</p> <p><b>MIT Computer Science and Artificial Intelligence Lab</b> June 2020 – June 2021 Research in applied machine learning under Erik Hemberg and Una-May O'Reilly.</p>
PREPRINTS	<p>1. <b>Low lying zeros of Rankin-Selberg <math>L</math>-functions.</b> Submitted.</p>
PUBLICATIONS	<p>2. <b>Extending support for the centered moments of the low lying zeros of cuspidal newforms</b> (with Peter Cohen, Justine Dell, Oscar E. González, Geoffrey Iyer, Simran Khunger, Chung-Hang Kwan, Steven J. Miller, Alicia Smith Reina, Carsten Sprunger, Nicholas Triantafillou, Nhi Truong, Roger Van Peski, Stephen Willis, Yingzi Yang). <i>Algebra &amp; Number Theory</i>. Accepted.</p> <p>3. <b>Modular forms and an explicit Chebotarev variant of the Brun-Titchmarsh theorem</b> (with Daniel Hu and Hari Iyer). <i>Research in Number Theory</i> (2023).</p> <p>4. <b>Adversarial agent-learning for cybersecurity: a comparison of algorithms</b> (with Erik Hemberg, Miguel Tulla, and Una-May O'Reilly). <i>The Knowledge Engineering Review</i> (2023).</p> <p>5. <b>Limiting Spectral Distributions of Families of Block Matrix Ensembles</b> (with Teresa Dunn, Henry L. Fleischmann, Faye Jackson, Simran Khunger, Steven J. Miller, Luke Reifenberg, and Stephen Willis). <i>PUMP Journal of Undergraduate Research</i> (2022).</p> <p>6. <b>Self-similar sets with arbitrary Hausdorff and box-counting dimension.</b> <i>The Pi Mu Epsilon Journal</i> (2021).</p> <p>7. <b>Analyzing Student Reflection Sentiments and Problem-Solving Procedures in MOOCs</b> (with Robert Gold, Erik Hemberg, ByeongJo Kong, Ana Bell, and Una-May O'Reilly). <i>Proceedings of the Eighth ACM Conference on Learning @ Scale</i> (2021).</p>
RESEARCH TALKS	<ul style="list-style-type: none"> <li>• <i>Extending support for the centered moments of the low lying zeros of cuspidal newforms.</i> 34th Automorphic Forms Workshop, March 2022.</li> <li>• <i>Extending support for the centered moments of the low lying zeros of cuspidal newforms</i> (with Simran Khunger). Maine-Quebec Number Theory Conference, October 2021.</li> </ul>

- *Limiting Spectral Distributions of Families of Block Matrix Ensembles* (with Teresa Dunn, Henry Fleischmann, and Stephen Willis). Young Mathematicians Conference, August 2021.
- *Analyzing student reflection sentiments and problem-solving procedures in MOOCs*. Eighth ACM Conference on Learning @ Scale, June 2021.

CONFERENCES	Park City Math Institute	July – August 2022
ATTENDED	34th Automorphic Forms Workshop	March 2022
	Maine-Quebec Number Theory Conference	October 2021
	Eighth ACM Conference on Learning @ Scale	June 2021
AWARDS	<i>NSF GRFP Honorable Mention</i>	April 2025
	<i>Rosenburg Prize in Mathematics</i> , Williams College Math Dept.	June 2024
	<i>Phi Beta Kappa</i> , Williams College	June 2024
	<i>Sigma Xi</i> , Williams College	June 2024
	<i>Churchill Scholarship</i>	December 2023
	<i>Goldwater Scholarship</i>	April 2023
OTHER	Teaching Asst. Math 250 Linear Algebra	Williams College
EXPERIENCE	Teaching Asst. Math 409 Putnam Seminar	Williams College
	Teaching Asst. Math 383 Complex Analysis	Williams College
	Referee Journal of Number Theory	
	Referee PUMP Journal of Undergraduate Research	
	Mentor Prison Math Project	
RELEVANT	Languages: English (native speaker), Russian (intermediate)	
SKILLS	Programming: C++, Java, Python	