

# Hasan Saad

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## EDUCATION

- University of Virginia, Ph.D. Mathematics (August 2022 - May 2024), M.S. Mathematics (December 2022)
- American University of Beirut, M.S. Mathematics (January 2018 - December 2020)<sup>1</sup>
- Lebanese University, B.S. Mathematics (2018)

## PUBLICATIONS

- *Distribution of values of Gaussian hypergeometric functions*, (Co-authors: Ken Ono and Neelam Saikia).  
Pure and Applied Mathematics Quarterly, Special Issue for Don Zagier's 70th birthday, **19**, no. 1 (2023), 371-407.
- *Explicit Sato–Tate type distribution for a family of K3 surfaces*.  
Forum Mathematicum **35**, no. 4 1105-1132. 2023.
- *Some Eichler–Selberg Trace Formulas*, (Co-author: Ken Ono).  
The Hardy Ramanujan Journal 45, 94-107. 2022.
- *Matrix points on special varieties over finite fields*, (Co-authors: Yifeng Huang and Ken Ono).  
Contemporary Mathematics, American Mathematical Society, accepted for publication.

## CONFERENCE PRESENTATIONS

- July 2022 *Distribution of values of Gaussian hypergeometric functions*, HKU Number Theory Days 2022 (Zoom).
- January 2023 *Explicit Sato-Tate distributions for hypergeometric varieties*, AMS Special Session on Modular Forms, Hypergeometric Functions, Character Sums and Galois Representations I, Joint Math Meetings, Boston.
- April 2023 *Counting matrix points on hypergeometric varieties over finite fields*, Special Session on Hypergeometric Functions, q-series and Generalizations, 2023 AMS Spring Virtual Eastern Sectional Meeting
- May 2023, *Determining point distributions on hypergeometric varieties* 35th Automorphic Forms Workshop, Louisiana State University.

## TEACHING

- Spring 2019, Instructor for Math 201 (**Calculus and Analytic Geometry III**), American University of Beirut (AUB)
- Summer 2021 Session I, TA for Math 1310 (**Calculus I**), University of Virginia (UVA)
- Summer 2021 Session II, TA for Math 1310 (**Calculus I**), UVA
- Fall 2021, Instructor for MATH 1210 (**A Survey of Calculus I**), UVA
- Spring 2022, Instructor for MATH 1210 (**A Survey of Calculus I**), UVA
- Fall 2023, Instructor for Math 1320 (**Calculus II**), UVA

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<sup>1</sup>I didn't complete my study for a Master's degree at AUB since I was accepted to UVA before my final semester.