

Syed Saam Rasool

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Education

B.S., Materials Science and Engineering 2021-2023
Columbia University

B.A., Mathematics 2018-2021
Colby College (GPA: 3.78)

- Ralph J. Bunche Scholar

Work Experience

Engineering Intern, VEIR

- Performed materials testing to obtain the electrical properties of various superconducting tapes under an applied strain
- Created an analytical model of the state of strain within the ReBCO layer to compliment mechanical failure testing and the evaluation of cable prototypes

Fellow, Marjorie Lee Browne STEM Education Fellowship Jun 2021-Jul 2021

- Lead a STEM camp for excelling students of color attending under-resourced middle schools in Memphis, TN held sponsored by the Memphis Teacher Residency
- Concurrent programming held at the National Civil Rights Museum for promoting equity in the classroom

Teaching Assistant, Colby College Department of Mathematics Sep 2019-May 2021

- Grade weekly problem sets and quizzes, hold TA help sessions
- Courses: Series in Honors Calculus, Series and Multivariable Calculus

Mathematics Tutor, Colby College Department of Mathematics Sep 2019-May 2020

Education and Engagement Intern, Colby College Museum of Art Sep 2019-May 2021

- Worked under the CCMA curator of education and engagement, Kristin Bergquist
- Presented analysis of visitor surveys to the museum board
- Researched and planned the launch of a competitive student docent program (CCMA Student Guides program)

Musician, Winslow Congregational Church Jan 2020-May 2021

- Served as the principal organist and musician at the UCC congregational church in Winslow, ME

Research Experience

Undergraduate Researcher, Polymath Jr. REU Jun 2020-Jul 2020

PI: Steven Miller

Areas: number theory, probability

- Produced probabilistic models of sequence length walking along primes and other integer sequences under digit-appending operations ([preprint](#))

Research Assistant, Columbia Univ. Dept. of Materials Science and Engineering Jul 2022-May 2023

PI: Siu Wai Chan

Areas: materials science, ceramics

- Fabricated and characterized electronic conductivity in nanoparticles of doped-metal oxides using impedance spectroscopy
- Created thin films of nanoparticles suspended in a polymer matrix for analysis of optical properties