

# George Chemmala

Math @ Brown

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## Education

Brown University, *Pursuing B.S. Mathematics*

Providence, RI | May 2026

Completed: Linear Algebra, Multivariable Calculus, Abstract Algebra, Graph Theory, Applied ODEs/PDEs

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## Mathematics/Teaching Experience

Georgia's Governor's Honors Program (GHP), *Math Major TA*

Summer 2023

- 4-week educational summer program sponsored by the state of GA for high school students
- Helped in the Math Department and led TA role in CS focused math classes

Math Circle, *Teaching Assistant*

2023

- Taught recreational math to local HS students with student authored curriculum

Brown Undergraduate Mathematics Journal, *Web Dev/Editor*

2022-2023

- Built the website for the upcoming journal, managing technical details of the project

Mu Alpha Theta (MAΘ), *President (Senior Year)*

2019-2022

- Rebuilt program after Covid suspending 2 years of competitions
- Set-up new post-covid opportunities and added resources for math enrichment
- Covid (2020-2022): Created videos for the program and read math books to develop recourses

Progress Math, *Teaching Assistant*

Summer 2019-Spring 2020

- Taught model drawing, based on the Singapore math curriculum, for solving algebra problems and Vedic math
- TA for "Math for the Fun of It," a week of recreational math for elementary students. Conducted a short lecture on fractals.

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## Leadership Experience

Marching Band, *Mellophone Section Leader (Senior Year)*

2018-2020  $\wedge$  2021-2022

- Taught marching fundamentals and aided communication between the section and the overall band

Concert Band, *Principal Horn (Junior & Senior Year)*

2016-2022

- The Symphony Band, under Casey Eubanks, was selected to perform at the GMEA State Conference (2022)
- Awarded Sequoyah High School Instrumental Music Program's Most Improved Brass (2019) — 2<sup>nd</sup> Chair in Middle Band as a Freshman then 2<sup>nd</sup> Chair in the Symphony Band as a Sophomore

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## Research Experience

AP Research

2021-2022

- Explored computer analysis of motifs, the building blocks of musical structure, in works of Shostakovich to produce quantitative data on similarity of motifs that could further traditional methods of music analysis

Georgia's Governor's Honors Program (GHP)

Summer 2021

- Implemented the Regiomontanus Problem in 3D – found optimal viewing positions of a 2D display in 3D

AP Seminar

2020-2021

- IWA: Cricket Diplomacy in South Asia
- IRR: Comparison between Quantum Computing and Classical Computing

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## Skill & Interests

**Technical Skills:** Proficient in Python, Julia, Mathematica, LaTeX, Unix, MS Office Suite, Google Suite, Figma, Inkscape, Da Vinci Resolve, MATLAB (basic), Adobe Creative Cloud (basic)

**Interests:** Education, Music, Photography