

# George Chemmala

Student @ Brown | Interested in learning Math & Physics  
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## Education

Brown University, *Perusing B.S. Mathematics*, 4.0/4.0 GPA Providence, RI | May 2026  
Completed: Linear Algebra, Multivariable Calculus | Taking: Abstract Algebra, Complex Analysis, Applied ODEs

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## Mathematics/Teaching Experience

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

Georgia's Governor's Honors Program (GHP), *Math Major 58* Summer 2021

- 4-week educational summer program sponsored by the state of GA for high school students (~650 in total picked from state to study their selected major)
- Math Major: studied geometric proofs using complex numbers, basic topology, and miscellaneous math & CS
- Lit Minor: Evil in Lit – analyzed literature with villains (e.g., Paradise Lost, The Godfather, Othello)

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

National Honor Society NHS, *Secretary* 2020–2022

- Administered hours and set up volunteer opportunities

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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 – “Despite current tensions, can cricket-diplomacy promote unity among South Asian countries?”
- IRR: Comparison between Quantum Computing and Classical Computing – Study on the varying fundamental physics resulting in different architectures despite the similar computational theory

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## Skill & Interests

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

**Interests:** Music, Education, Photography, Public Policy, Finance, Stand-up, Frisbee