Eric Allatta | Math and CS Teacher

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"When we try to pick out anything by itself, we find it hitched to everything else in the universe." – John Muir

Summary

Nationally recognized STEM educator specializing in **rigorous computer science and mathematics instruction, interdisciplinary curriculum design, and equity-driven pedagogy**. Committed to advancing **mathematical reasoning and problem-solving for underrepresented students** through innovative, inquiry-based teaching strategies. Integrated computational mathematics with algebra, **enhancing students' analytical depth and problem-solving skills**, ensuring **success in advanced mathematics**.

Certification & Licensure

- **NY 7-12 Mathematics Professional Certification**
- **Pursuing NY K-12 Computer Science Certification** (Hunter College CS Ed Advanced Certificate, expected June 2027)

Recent Professional Development and Consultation Experience

Bootstrap, Rutgers, CS Alliance, SFPS

EdTech Consultant and Coach — 2021–Present

- **Supported and coached** K-12 educators in integrating computational mathematics and data science into existing curricula, enhancing interdisciplinary instruction and student engagement.
- Designed **customized professional development** workshops for K-12 teachers in computer science and data science.
- Engineered **Google AppsScript + Sheets automation** for professional development tracking and followup.
- Edited and maintained **version controlled curricula** with a remote, distributed teams.
- Contributed to **national professional learning frameworks**, driving large-scale educator training initiatives.

Bootstrap — New York, NY

Senior Master Teacher — 2014–Present

- Trained and mentored **hundreds of math and CS educators** nationwide in computational mathematics.
- Led intensive, **week-long educator training sessions**, fostering interdisciplinary teaching in CS, mathematics, and data science.

Teaching Experience

Academy for Software Engineering — New York, NY

Mathematics & Computer Science Teacher, Data Specialist — 2012–2021

- Developed and launched **Computational Mathematics course for 9th graders**, aligning with Algebra I and the AP CS pipeline.
- Created and scaled a required **AP CS Principles program**, annually advancing **34 students advanced to AP CS A, with 64% earning pass rates**, matching national standards.
- Designed and led **data-driven interventions**, increasing Algebra Regents pass rates.
- Guided students through the **advisory program, providing multi-year mentorship** from 9th grade to college acceptance, fostering lasting relationships and long-term academic and personal growth.
- **Led the Computer Science Department**, spearheading a **vertical skills alignment initiative** to ensure seamless progression between courses while integrating **Common Core Mathematical Practices** into CS instruction.
- **Founded and led the Intranet Team**, developing and maintaining a high-impact **internal resource hub** that streamlined collaboration and access to instructional materials for faculty.
- **Organized and led after-school programming clubs, hackathons, and tech field trips**, expanding hands-on learning opportunities while spearheading the **Aspirations in Computing Award drive**, empowering young women in technology.
- **Aligned curricula across departments**, ensuring conceptual continuity from Algebra to advanced mathematics through mastery skills.
- **Continuously refined course sequences**, integrating real-time assessment data for optimized learning trajectories.

Research and Curriculum Development

Academy for Software Engineering with Bootstrap   New York, NY
Computational Algebra Researcher   *2013–2015*
- Conducted a **controlled study on functional programming in Algebra I**, measuring its impact on function composition and algebraic reasoning.
- **Function composition scores increased by 90-111%** in experimental groups, while control groups saw a **39% decline**.

Math for America   New York, NY
Early Career and Master Teacher Fellow   *2013–2021*
- Completed two four year fellowships.
- Developed and led **workshops for top NYC math and science educators**, introducing **hundreds of teachers** to functional programming, integrating computing and data science into math education.

CollegeBoard
Pilot Teacher   *2013–2017*
- Designed, tested, and assessed **AP CS Principles pilot curricula** (EarSketch, BJC, Bootstrap) in collaboration with national curriculum teams.
- Led workshops for **experienced CS teachers** on Google Apps project management.

Education

Hunter College   New York, NY
Master's in Urban Adolescent Mathematics Education   *2011–2012*
Completed through the **Urban Teacher Residency Program** (New Visions for Public Schools) at Bronx Center for Science and Mathematics.

St. John's College   Santa Fe, NM
Bachelor of Arts in the Liberal Arts   *2003–2007*
Seminar-based curriculum focused on **Philosophy, the History of Mathematics & Science, Comparative Literature, and Linguistics**.

Additional Coursework: Berklee College of Music, DeVry University (Core musical studies, production, and electrical engineering).

Presentations

Rutgers University. **Virtual**
So This is CS! *2022*
Presentation for NJ middle school math teachers developed under Fran Trees, who is one of the developers of AP CS Principles, connecting computer science to math learning standards. `https://mrallatta.github.io/thisiscs/`. Accessed: 2025-03-31.

SIGCSE 2018 **Baltimore, MD**
Five Slides About: Engaging the CS Principles Explore Task, SIGCSE 2018 *2018*
Colleen Lewis from CS Teaching Tips invited me to present at a 5 slides about session on the CS Principles Performance task. I leverage the abstraction model $input \rightarrow transformation \rightarrow output$ when interpreting current events in computing.

Math for America **New York, NY**
Introduction to CS Workshops *2016–2020*
Led workshops on functional programming, data science, recursion, and computational mathematics pedagogy. `https://mrallatta.github.io/introcs-workshop/`. Accessed: 2025-03-31.

SIGCSE 2015 **Kansas City, MO**
Technology We Can't Live Without! *2015*
Dan Garcia from Beauty and Joy of Computing invited me to present on a teacher tools panel. At the time I couldn't live with Doctopus and WeScheme and was giving workshops on how to manage Google Docs for programming projects.

James Madison University **Harrisonburg, VA**
Using Google Apps Scripts for Classroom Management *2014*
Ran workshops on using early Google scripts written by Andrew Stillman. It was all the rage in 2014. `https://w3.cs.jmu.edu/mayfiecs/cta14/files/Allatta/GoogleAppsScripts.pdf`. Accessed: 2025-03-31.

Articles

EdSurge
Solving for X and Y in a School Focused on Math and Computer Science *2016*
This recounts the early history of the Academy for Software Engineering and the curricular decisions that we made as we built a new computer science education for all students. `https://www.edsurge.com/news/2016-07-16-solving-for-x-and-y-in-a-school-focused-on-math-and-computer-science`. Accessed: 2025-03-31.

Medium
Winning Essay for the Inaugural CSTA Excellence in CS Teaching Award/Grant *2016*
I won a $10,000 grant based on the strength of this essay, recommendations, and advocacy for leveraging the mathematical side of computer science rather than presenting it as an alternative. `https://medium.com/@eallatta/eric-allatta-2016-awards-for-teaching-excellence-in-computer-science-application-2ae514e7a8c9`. Accessed: 2025-03-31.

Chalkbeat
Yes, any teacher can help the city spread computer science. No, not any training will do. *2015*
This is first person account of coming from a non-traditional background and finding success in the burgeoning CS for All initiative, encouraging other teachers to jump in. `https://www.chalkbeat.org/newyork/2015/10/22/21096178/yes-any-teacher-can-help-the-city-spread-computer-science-no-not-any-training-will-do/`. Accessed: 2025-03-31.

Interviews

Rex Academy
Episode 17: Eric Allatta, Math & CS Teacher at Academy of Software Engineering *2020*
I talk about mastery-based learning, self reflection, and growth mindset. `https://www.youtube.com/watch?v=JAc-5zSoHQU`. Accessed: 2025-03-31.

The New York Times Learning Network
Cross-curriculum connections | Teaching with Graphs from the New York Times., Accessed: 2025-03-31. *2018*
Sharon Hessney, the creator of NY Times What's Going on in This Graph?, visited my classroom and coached me on Notice & Wonder pedagogy and utilizing WGoiTG? in the classroom. Sharon taught me the sentence started "I wonder if ..., because ..." Wondering is not just asking a question, it is conditionally formulating possible answers, empowering all students to dig into what they notice. `https://www.youtube.com/watch?v=WecYohd7iOs`. Accessed: 2025-03-31.

CSTeachingTips.com
Teaching Tips *2015*
Tips from my classroom curated by Colleen Lewis. `https://www.csteachingtips.org/taxonomy/term/367`. Accessed: 2025-03-31.