
Daniel De Sousa

Mathematics 7-12 Educator

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Summary

Experienced and award-winning Licensed 7–12 Secondary Mathematics Teacher with over 9 years teaching courses such as Algebra, Geometry, and Precalculus in both the general education and an integrated co teaching setting. Leading the mathematics department for over 8 years, supporting staff developments, and promoting equitable instruction through coaching and lab classrooms. I contributed to the citywide curriculum implementation and advocated for all students through the NYCPS Solves advisory team.

CERTIFICATION

New York State Professional Certificate, Mathematics, Grades 7-12

EXPERIENCE

Business Technology Early College High School, Queens Village

Mathematics Teacher

September 2017 - PRESENT

- Algebra Next Generation/Common Core (General Education and ICT)
 - Developing a problem solving based curriculum (Illustrative Mathematics)
 - Sharing highly effective IM practices to NYC DOE through Lighthouse Visits and Video project
 - Video Examples (log in with DOE credentials) [Video #1](#), [Video #2](#), [Video #3](#), [Video #4](#), [Video #5](#)
- Algebra^(Pro)
 - A course designed to support all students in algebra 1 as well as expose students to topics needed for future mathematics courses that are not typically taught.
- Geometry Next Generation/ Common Core (General Education and ICT)
 - Developing a problem solving based curriculum (Illustrative Mathematics)
- AP Precalculus (General Education and ICT)
- Precalculus (General Education and ICT)

Mathematics Content Leader / Instructional Leadership Team (ILT)

September 2018 - Present

- Leading the mathematics team meeting weekly
- Running inquiry cycles to assess various trends across mathematics courses
- Constructing intervisitation/rounds cycles (Research Based intervisitation cycles)
- Developing Mathematics curriculum
- Vertically aligning curriculum
- Preparing, facilitating, and taking part in intervisitation cycles
- Hosted a Math Night (Math Matters) - [See Here](#)

References available upon request

NYCPS Solves Advisory Team

September 2024- Present

- Selected to serve on the NYCPS Solves Advisory Team, providing monthly feedback to central leadership on the rollout of the Illustrative Mathematics curriculum. Through this experience, I had the opportunity to advocate directly to the Chancellor for increased teacher support in meeting the needs of students with disabilities and multilingual learners.

Model Teacher

September 2022- Present

- Promoting effective instructional practices that benefit all students,
- Supporting new teachers through the New Teacher Academy
- Running a lab classroom where all teachers feel welcomed and comfortable in a space where the staff and I can learn, grow, and reflect

Peer Collaborative Teacher

September 2026- Present

- Promoting effective instructional practices that benefit all students,
- Creating and facilitating professional learning for the school community
- Coaching 1-1
- Supporting new teachers through the New Teacher Academy
- Running a lab classroom where all teachers feel welcomed and comfortable in a space where the staff and I can learn, grow, and reflect

Professional Development / Instructional Leadership Team Coordinator

November 2022- 2023, 2024-2025

- Creating and supporting the professional learning that takes place at BTECH.,
- Coaching
- All expectations can be seen [here](#)

RELATED EXPERIENCE

TIME 2000 Math Conference Presenter

2023- Present

- Presenter at the TIME 2000 Conference. This conference invites schools from all over NYC to have a day of learning and loving math.
- Presented: *Games and Puzzles of Mathematics*. An interactive session where students see that mathematics is more than just the typical *functions, trigonometry, and solving equations*.

EdTeach NYC Presenter

2026

- Beyond AI Hype and Backlash: What's Actually Working for Teachers?

Queens College Behavioral Management Presentation

2018- Present

References available upon request

- Yearly presentation - Speaking to preservice mathematics teachers about behavior management strategies based on my experiences and aligned to their coursework.

ResearchED NYC Presenter

2026

- Co-presented with Tricia Taylor on grounding school-wide guiding principles in the science of learning, making instructional thinking visible through live modelling and short video exemplifications

Social Emotional Learning Coordinator

2018- 2023

- Meeting once a week to plan and create upcoming community days
- Creating and developing SEL Curriculum
- Leading school wide professional developments teaching and informing staff about SEL strategies, lessons, and upcoming events happening at our school
- Training students in being facilitators of community group

Music Club Facilitator

September 2017- Present

- Promoting a positive and welcoming environment where students learn and/or play music.
- Facilitating talent shows and other major school events

EDUCATION

Queens College, City University of New York, Flushing, NY

August 2013 - May 2017

B.A., Mathematics and Mathematics Education

MSED., Mathematics and Mathematics Education

[Thesis](#) Student Motivation in the Modern Day Urban Classroom: An Exploratory Study:

SKILLS

- Creating and editing videos in Adobe Premiere Pro
- Proficient in Microsoft Office, Google Workspace
- Creating and working within DESMOS/Geogebra
- Self-Taught Piano and Guitar
- Instructional Coaching & Professional Learning Facilitation
- Curriculum Development & Adaptation
- LaTeX Document Creation
- Assessment Design & Data Analysis

AWARDS/ACCOLADES

- 🍏 Green Apple Award - [Educators for Excellence](#) (2025)
- NYCPS Solves Teacher Spotlight - [Newsletter](#) (2025)
- 🍏 Big Apple Fellowship Award (2024) ([Recommendation Letter](#))
- The Mary Felicetti Memorial Award - Excellence in Mathematics Mentorship and Supervision (2023)
- The Alice Artzt Award for Excellence in Mathematics Teaching (2021)
- Co-authored, *The Inspirational Untold Stories of Secondary Mathematics Teachers*

References available upon request

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- Co Facilitated a presentation at Limacon (Long Island Mathematics Conference), *From Power Pairs to Loving Mathematics and Teaching*
 - TIMES Magazine Contributions:
 - Self-Regulated Learning is at the Core of My Instruction
 - Now More Than Ever: Developing Self-efficacy through Mindset and Combating Gender Stereotypes