

MARIEKE THOMAS

Physical Science Teacher

Certification Chemistry, grades 7-12—Professional Certificate, New York.
Physics, grades 7-12—Professional Certificate, New York.

Education

2012-2014 **PACE UNIVERSITY** *New York, NY*
M.S. in Teaching, May 2014. GPA 3.94.

2008-2012 **HARVARD COLLEGE** *Cambridge, MA*
A.B. in Chemistry and Physics, *summa cum laude*, with Spanish language citation, May 2012.
GPA 3.98. Phi Beta Kappa (inducted Spring 2011), John Harvard Scholar, Detur Book Prize.

Experience

Fall 2012-
Present **THE BRONX HIGH SCHOOL OF SCIENCE** *Bronx, NY*
Physical Science Teacher

- Teach two sections of Regents Physics and one section of AP Physics C (100 total students). Courses previously taught include AP Chemistry, Regents Chemistry, and Freshman Research Literacy.
- Design curriculum with a focus on inquiry-based learning through Socratic discussions, hands-on exploratory activities, and Common Core-aligned readings.
- Students outperformed school average in all AP and Regents exams. Ex: achieved 93% passing/55% 4s and 5s on 2015 AP Chemistry exam (school average: 87%/43%), 61 % Mastery on 2014 Regents Chemistry exam (school: 53%); 74% Mastery on 2017 Regents Physics exam (school average 71%).
- Tenured (September 2015).

Mentor Teacher (Fall 2016-present)

- Provide support for first-year physics teachers with lesson planning, classroom management, assessment, and curriculum development. Hosted student teacher and provided feedback on lesson plans and delivery.

Bronx Science Hackers Faculty Advisor (Fall 2016-present)

- Direct computer coding summer program and after-school club. Coordinate site visits to software engineering companies. Organize 12-hour Local Hack Day and AtomHacks hackathons.

Testing Coordinator (Fall 2016-present)

- Schedule and supervise the administration of PSAT, Midyear, AP, and Regents exams for 3000 students.

Professional Development

Summer 2015-
Present **MATH FOR AMERICA** *New York, NY*
Early Career Fellowship
Collaborate with professional network of teachers on strategies for teaching STEM subjects. Organized Physics Demo Derby, showcasing demos and leading a discussion on how to use physical phenomena to motivate content-rich discussion.

Summer 2017 **US NAVAL ACADEMY** *Annapolis, MD*
Set Sail STEM Educator Training
Completed hands-on, project-based STEM learning activities and discussed implementation in standard curriculum.

Summer 2016 **INTREPID MUSEUM** *New York, NY*
Code Together
Learned principles of computer science alongside high school girls. Worked with students to design 3-D printed models, program Ozobot robots to successfully complete obstacle challenges, and create simple games.

Summer 2012,
2014 **NEW YORK CITY TEACHING FELLOWS** *New York, NY*
Teaching Fellow, Fellow Advisor *Cohort 23*
Engaged in a rigorous summer training program consisting of daily workshops on practical teaching strategies, coursework towards Masters degree, and field experience (student teaching).

Skills and Interests

- Proficient in Spanish.
- Conducted chemistry research in laboratories at UCSF, UC Berkeley, and University of Buenos Aires.
- Performed in over 40 plays, musicals, and concerts, with high school, college, and community groups. Assistant director: French Woods Festival (2013). Current member of the Gotham Rock Choir.