

Brian S. Mueller

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Education

Math for America

New York, NY

Master Teacher Fellowship, Computer Science

2016–Present

- Participate in a community of exceptional educators through monthly professional development and focused collaboration, including:
 - Exploring and Applying the Practices of Computer Science
 - Introduction to Computational Thinking, Tools, and Applications
 - Talk Less, Teach More: Using Video to Create a Blended or Flipped Classroom
 - Rubik's Cube: An Introduction

Fellowship, Mathematics

2011–2016

- Selective five-year fellowship program with a mission of improving secondary public education. In addition to a full-ride graduate degree, fellowship required a four-year teaching commitment and provided mentoring and professional development support in addition to pre-service training.
 - Professional Development: Arduino Professional Learning Team (PLT), Computer Science PLT.
 - Collaborated with other CS Teachers around content, curriculum, resources, and classroom challenges.

New York University

New York, NY

Master of Arts, Mathematics Education

May 2012

- *New York State Initial Certification* in 7-12 Mathematics (*Summer 2012*)

Colorado State University

Ft. Collins, CO

Bachelor of Science, Mathematics Education

December 2010

- *Colorado State Initial Certification* in 7-12 Mathematics (*December 2010*)

Experience

New York City Department of Education

Brooklyn, NY

Teacher, High School of Telecommunication Arts and Technology

September 2012 to Present

- Teaching 12th grade Software Engineering (*2016–Present*) – Ruby, Sinatra, APIs, and Independent Study.
- Teaching 11th grade Software Engineering (*2015–Present*) – Github, HTML5, CSS3, jQuery, and Bootstrap.
- Teaching 10th grade Software Engineering (*2014–Present*) – p5js, Makey Makey, Arduino, and Google Sheets.
- Taught 9th grade Software Engineering (*2013–2016*) – Scratch, Robotics, and Python.
- Mentoring two first-year Math teachers through weekly observations and reflection meetings.
 - Completed School-Based Mentor Course I, Parts I & II.
- Serving as the Software Engineering Coordinator:
 - Coach teachers new to Software Engineering in the creation and implementation of curriculum.
 - Correspond with PENCIL and Deloitte regarding workshops, panels, field visits, and internships.
 - Coordinate field trips to software engineering companies and events such as the CS Opportunity Fair.
 - Recruit new students through video creation, parent correspondence, and application vetting.
- Gained 300+ hours of professional development for the rollout of the NYC Software Engineering Program (SEP).
 - Led professional development on JavaScript: demonstrating activities, assessments, and student work.
 - Collaboratively prototyped a seat-time tracking application at a SEP teacher hack-a-thon.
- Led professional development among school staff including the usage and optimization of formative assessment services, self-built progress report template automation, new laptops, and other educational technology tools.
- Collaboratively planned and taught Integrated Algebra, Common Core Algebra I, and Algebra II / Trigonometry.
 - Participated in New Visions' Accessing Algebra through Inquiry (a2i) program to help schools transition to the new Common Core State Standards. Received individual coaching and school-wide training, and used data from the Silicon Valley Math Initiative assessments to make instructional decisions.

- Advisor for the Photography Club, guiding students through professional shooting and editing techniques.
- Photograph school events such as ceremonies and musicals.

Landshaw Photography

Owner / Photographer

- Weddings, engagements, portraits, events, and videos.

Brooklyn, NY

2009–Present

Flatiron School

Precollege Instructor

- Co-taught Intro to Software Engineering; students built and deployed Model-View-Controller web applications.
- Completed 100 hours of pre-work in HTML, CSS, JavaScript, Ruby, Sinatra, and SQL.

New York, NY

Summer 2015

DeltaMath

Volunteer Programmer

- Used PHP and JavaScript to program interactive math homework modules being used by over 2500 teachers.

New York, NY

February 2013 – June 2015

Skills / Interests / Involvement

- Breadth of technological knowledge including various programming languages and Google apps.
- Excellent leadership, flexibility, and communication skills gained through teaching.
- Frequent attendance of CSNYC meetups to contribute to activities and conversations around CS education.
- Expertise in and passion for photography, videography, and music production.
- Attended the annual National Council of Teacher of Mathematics (NCTM) conference in April 2015.

Awards / Other

- Tenure, *Spring 2015–Present*
- Luckasen Scholarship, *2010–2011*
- Tutor of the Semester, Academic Advancement Center, *Spring 2010*.
- National Council of Teachers of Mathematics member, *2010–2016*.
- Durand Family Scholarship, *2008–2009*
- CSU College of Natural Sciences Dean's List, *Fall 2008*
- Harold and Sylvia Joy Scholarship, *2007–2008*

References

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