# Brian S. Mueller

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*brianmueller.github.io*

## 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
    - Rubik³s 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 12$^{th}$ grade Software Engineering *(2016-Present)* – Ruby, Sinatra, APIs, and Independent Study.
- Teaching 11$^{th}$ grade Software Engineering *(2015-Present)* – Github, HTML5, CSS3, jQuery, and Bootstrap.
- Teaching 10$^{th}$ grade Software Engineering *(2014-Present)* – p5js, Makey Makey, Arduino, and Google Sheets.
- Taught 9$^{th}$ 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**                                   Brooklyn, NY
*Owner / Photographer*                                     *2009 to Present*
- Weddings, engagements, portraits, events, and videos.

**Flatiron School**                                        New York, NY
*Precollege Instructor*                                    *Summer 2015*
- 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.

**DeltaMath**                                              New York, NY
*Volunteer Programmer*                                     *February 2013 to June 2015*
- Used PHP and JavaScript to program interactive math homework modules being used by over 2500 teachers.

## 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, *February 2010 to February 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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