Brian S. Mueller

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brianmueller.github.io

Education

New York University   New York, NY
Master of Arts, Mathematics Education   *May 2012*
- *New York State Initial Certification* in 7-12 Mathematics *(Summer 2012)*
- *2016 Math for America Master Teacher Fellowship in Computer Science* – Participate in a community of exceptional educators through monthly professional development and focused collaboration.
- *2011 Math for America Fellow* – Selective five-year fellowship program with a mission of improving secondary education. Requires a four-year teaching commitment and provides mentoring and professional development support in addition to pre-service training.
    o Professional Development: Arduino Professional Learning Team (PLT), Computer Science PLT.
    o Collaborated with other CS Teachers around content, curriculum, resources, and classroom challenges.

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 Databases.
- Teaching 11th grade Software Engineering *(2015-Present)* – Github, HTML5, CSS3, jQuery, and Bootstrap.
- Teaching 10th grade Software Engineering *(2014-Present)* – Processing (p5js), Makey Makey, Arduino, and Data.
- Taught 9th grade Software Engineering *(2013-2016)* – Scratch, Robotics, and Python.
- Mentor teachers new to Software Engineering in the creation and implementation of curriculum.
- Mentor first-year Math teachers through weekly observations and reflection meetings.
- Coordinate field trips to software engineering companies and events such as the annual CS Opportunity Fair.
- Recruit new software engineering 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).
    o Led professional development on JavaScript demonstrating activities, assessments, and student work.
    o 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.
    o 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.
- Photograph school events such as ceremonies and musicals, and intend to start a photography club next year.

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

- Tutor of the Semester, Academic Advancement Center, *Spring 2010.*
- National Council of Teachers of Mathematics member, *February 2010 to February 2016.*
- CSU College of Natural Sciences Dean's List, *Fall 2008*

References

Xhenete Shepard   (718) 759-3400
Principal, High School of Telecommunication Arts and Technology   *xshepard@hstat.org*

David DeMartini   (718) 759-3462
Assistant Principal, High School of Telecommunication Arts and Technology   *ddemartini@hstat.org*

Daniel Fenjves   (646) 653-2633
Founder, Upperline School of Code   *daniel@upperlinecode.com*