Brian S. Mueller

brianscottmueller@gmail.com

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)
- *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.
    - Professional Development: Arduino PLT, Computer Science PLT

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 9th grade Software Engineering *(2013-Present)* – Scratch, Robotics, and Python.
- Teaching 10th grade Software Engineering *(2014-Present)* – Processing (p5js), Makey Makey, Arduino, and Data.
- Teaching 11th grade Software Engineering *(2015-Present)* – Github, HTML5, CSS3, jQuery, and Bootstrap.
- Mentoring a new teacher in the creation and implementation of 9th-grade Software Engineering curriculum.
- Received and led professional development for the rollout of the NYC Software Engineering Pilot program.
    - Led professional development on Javascript, demonstrating activities, assessments, and student work.
    - Collaboratively prototyped a seat-time tracking application at a SEP teacher hackathon.
- Led Professional Development among school staff including the usage and optimization of formative assessment services, a self-built progress report template automator, 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.

Flatiron School   New York, NY
Precollege Instructor   *Summer 2015*
- Co-taught Intro to Software Engineering where students built and deployed MVC web applications.
- Completed 100 hours of prework in HTML, CSS, Javascript, Ruby, Sinatra, and SQL.

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

Mathnasium   Westminster, CO – *Spring 2011*
Tutor   Ft. Collins, CO – *Summer 2010*
- Worked closely with students of ages 6-18, developing and executing customized learning plans with specialized curricula focused on filling mathematics gaps.

Colorado State University   Ft. Collins, CO
Instructor, Resources for Disabled Students   *May 2010 to August 2010*
- Instructed a blind, foreign student daily in a pre-calculus course in a one-on-one setting.

Tutor, Academic Advancement Center   *September 2008 to May 2010*
- Assisted underprivileged and first-generation college students with 100-level math courses.

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 – 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 Code   *daniel@upperlinecode.com*