

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)
- *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 300 hours of 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

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