

Nathaniel Edward Stahl

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PROFILE

Ed.D in math education, 18 years teaching, management, and program design experience in corrections, K-12 schools, university (undergraduate and graduate), after school programs, and a museum.

EDUCATION

Teachers College, Columbia University, New York, NY — Doctor Of Education, Mathematics Education, May 2017

Harvard University Division of Continuing Education, Harvard University, Cambridge, MA — Master of Arts, Mathematics for Teaching, May 2011

Roy H. Park School Of Communication, Ithaca College, Ithaca, NY — Bachelor Of Science, Corporate Communication, August 1997

EXPERIENCE

Advanced Mathematics Teacher, Admiral Farragut Academy; Saint Petersburg, FL
August 2022 Present

Taught Precalculus, AP Calculus, and Dual Enrollment (College Algebra and Elementary Statistics) at a private Naval Honor School. Designed and implemented curriculum for each course, including several hands-on modeling projects. Sponsored school Mu Alpha Theta chapter. Admiral Farragut Academy is an international boarding school with students from all over the world and the United States.

Chief of Education, National Museum of Mathematics; New York, NY 2017
August 2022

Managed a team of Museum educators and scheduling coordinators. Ensured quality delivery of enrichment-based mathematics workshops to a diverse range of school groups and individual visitors, both online and in person. Coordinated an after-school program and developed behavior intervention plan. Implemented professional development for Museum educators and NYC teachers. Helped develop an ongoing Math Teachers' Circle and served on leadership team. Wrote, approved, taught, and evaluated curriculum for both school groups and after-school program. Managed classroom portion of Museum summer camp. Supervised research projects conducted at the Museum. Conducted outreach sessions for corporate sponsors and other Science Centers. Judged lesson plans for prize competition. Interviewed and trained Museum volunteers, both online and in person.

**Adjunct Instructor, University of South Florida-St. Petersburg; St. Petersburg, FL
2016 2018**

Taught introductory statistics, college algebra, and liberal arts mathematics to a diverse population of full- and part-time students. Leveraged technology to increase student engagement, generated meaningful in-class discussions, and developed a flipped classroom model. Participated in departmental planning meetings and professional development with Canvas course management system and Pearson online products.

**Adjunct Instructor, University of South Florida-Sarasota/Manatee; Sarasota, FL
2016**

Taught introductory statistics, both online and in-person. For the online class, provided individualized feedback and guidance, including comments on assignments, emails, phone calls, and discussion forums. In person, designed engaging hands-on activities to illustrate and motivate concepts in statistics and probability.

Technical Director, The Math Circle Online 2015 2020

Designed and implemented a videoconference-based version of the Math Circle (see below). Responsible for choosing technological platforms, customer relations, business development, technical support, outreach, and training. Initiated and monitored online problem-solving sessions with children connected via videoconference. Assisted instructors with presentation technology and accessibility. Scheduled weekly sessions and managed a list of client emails.

Educator, National Museum of Mathematics; New York, NY 2014 2015

Delivered enrichment-oriented mathematics lessons to school groups and to children in an after-school program. Topics included game theory, graph theory, graph coloring, topology, knot theory, cryptography, tessellations, combinatorics and probability. Developed numerous lessons for after-school activity.

Gifted Mathematics Specialist, the Lang School; New York, NY 2013 2014

Responsible for curriculum development, teaching, and supervising other teachers at a K-8 special needs school. Integrated mathematics into other content areas such as social studies, science, engineering, and art. Supported professional development in mathematics for classroom teachers.

Visiting Guest Faculty, Bard College; Bronx, NY 2012 2013

Supervised classroom research projects for two MAT candidates. Explained the structure of a research paper, the process of finding sources, and citations. Edited final papers and coached students in presentation. Co-taught several sessions of a math content/methods course for MAT students affiliated with Math for America. Helped students design lesson plans, solve novel problems, and write proofs.

Mathematics coach, Center for The Professional Education Of Teachers, Teachers College, Columbia University; New York, NY 2012 2013

On-site training at public middle and high schools in New York City and southern Connecticut. Off-site day-long trainings at Teachers College. Assisted teachers with lesson planning, classroom instruction, content, and curriculum alignment.

Mathematics Teacher, Boston Latin School; Boston, MA 2010 2011

Taught Algebra II and Precalculus to 9th and 11th graders at Boston's top-ranked public exam school. Helped students pose and refine research questions related to curriculum topics. Created a classroom environment of participation, sharing, discussion, and conjecture. Developed assessment items, assigned homework, and managed classrooms of up to 31 students at a time.

Teacher, The Math Circle; Cambridge, MA 2009 2011

Led inquiry-based math groups after school with children aged 5 through 10. Topics included tessellations, modular arithmetic, combinatorics, number theory, topology, figurate numbers, symmetry, group theory, graph theory, and the Pythagorean theorem. Children created definitions, discovered theorems, and constructed proofs. Curriculum was almost entirely student-generated after an initial puzzle was presented.

GED Instructor, Suffolk County Sheriff's Department; Boston, MA 2005 2010

Taught GED preparatory classes to incarcerated males aged 17+. Primary emphasis on mathematics with a secondary emphasis on writing. Mathematics taught through discussion, exploration, and experimentation while building a learning community. Topics ranged from combinatorics to probability to number theory, algebra, and geometry. Writing skills focused on organization and coherence over mechanics. Developed all curriculum, managed inmate tutors and college interns. Developed curricula for three different transitional college classes. Taught precalculus and calculus to a few advanced students.

EFL Instructor, Berlitz, Inc.; Boston, MA 2003 2004

Taught English as a Foreign Language to students from many different countries. Required to teach at Beginner, Intermediate, and Advanced skill levels using the Berlitz Method™. Instruction was 100% in English, performed using many repetition exercises and games. Frequently required to be creative in the classroom, develop own lesson activities, and adapt learning model to students' individual needs. Became familiar with common problems and strategies of English Language Learners.

Substitute Teacher, Boston Public Schools; Boston, MA 2003 2005

Responsible for classroom management and instruction in urban public schools. Frequently worked with students with behavior issues and moderate special needs. Taught a wide range of subjects in diverse environments and at all grade levels (K-12). Completed two assignments of 3 or more consecutive weeks in elementary special education classrooms. Received extensive support and mentoring from colleagues while designing lesson plans and assessing student needs.

PUBLICATIONS

Analysis of Calculator Use and Strategy Selection by Prison Inmates Taking the Official GED Practice Test, *Journal of Correctional Education*, Volume 62, Issue 3, November 2011 pp. 194 to 215

Assessing "A Bit of Information", *Mathematical Modeling Assessment Handbook*, COMAP, fall 2013

CONFERENCE PROCEEDINGS

Living Mathematics - Massachusetts Coalition for Adult Education
October 2008, 2009

Mathematical Games and Theorems - 8th International Conference on
Mathematical Creativity and Giftedness
July 2014