

CURRICULUM VITAE

Joseph J. Stern



Academic Positions

2024–2025	Bard High School Early College – Manhattan, New York Role: Mathematics Teacher
2002–2009 & 2013–2024	Stuyvesant High School, New York Role: Mathematics Teacher
SUMMERS 2003–2008	Macaulay Honors College, City University of New York Role: Instructor, Summer Scholars Academy in Mathematics and Science
2001–2002 & SUMMER 2000	Queens College, City University of New York Role: Adjunct Instructor, Mathematics Department

University Education

2009–2012	Columbia University, New York Doctoral Candidate, Department of Mathematics
2005–2007	Queens College, City University of New York Master of Arts with Distinction in Pure Mathematics
1999–2000	Imperial College of Science, Technology and Medicine, London One-Year Course in Mathematics, supported by the British Marshall Scholarship
1994–1999	Queens College, City University of New York Bachelor of Arts, <i>summa cum laude</i> , Mathematics and Philosophy

Fellowships and Awards

2014	MfA Master Teacher Fellowship (2014–2018) Math for America — Simons Foundation
2011	<i>Finalist</i> , Presidential Award for Outstanding Teaching by a Graduate Student Columbia University, Office of the Provost
2009	Faculty Fellowship in the Department of Mathematics Columbia University, Graduate School of Arts and Sciences
2008 & 2004	Edyth May Sliffe Award for Distinguished High School Mathematics Teaching Mathematical Association of America
2005	MfA Master Teacher Fellowship (2005–2009) Math for America — Simons Foundation
1999–2000	British Marshall Scholarship Government of the United Kingdom of Great Britain
1999	<i>Valedictorian</i> , Baccalaureate Convocation, Queens College CUNY Honors College
1999	Phi Beta Kappa Award for Outstanding Scholarship, Sigma Chapter of New York
1999	Eva and Joseph Paulson Memorial Award for Outstanding Mathematics Graduate Queens College CUNY, New York

Research Publications and Preprints

1. *Inversion numbers of graphs* (with M. Conlon, M. Falidas, M. Forde, J. Kennedy, and S. McIlwaine), *Graph Theory Notes of N.Y.*, **37** (1999), p. 42-48.
2. *Euler's triangle determination problem*, *Forum Geom.*, **7** (2007), p. 1-9.
3. *Equimodular polynomials and the tritangency theorems of Euler, Feuerbach, and Guinand* (with A. Ryba), *American Mathematical Monthly*, **118** (2011), p. 217-228.
4. *Equimodular polynomials and their cycloidal simplices* (with A. Ryba), in preparation.

[Selected articles and preprints may be downloaded from <http://josephstern.info>.]

Other Written Work

1. *Rectangular Coordinates and the Consistency of Euclidean Geometry: A Supplemental Textbook*
Stuyvesant High School Honors Program in Mathematics

Professional Experience

- 2000—PRESENT *Courses and Seminars*
1. Multivariable Calculus: Queens College CUNY & Stuyvesant High School
 2. Differential Equations: Stuyvesant High School
 3. Differential Geometry of Surfaces: Stuyvesant High School Faculty Seminar
 4. Linear Algebra: Queens College CUNY
 5. Field Theory and Constructibility: Macaulay Honors College Summer Academy
 6. Actuarial Mathematics (Probability and Statistics): Stuyvesant High School
 7. Modern Triangle Geometry: Macaulay Honors College Summer Academy
 8. Calculus II: Barnard College at Columbia University
- [Selected course materials may be downloaded from <http://www.josephstern.info>.]
- 2009—2010 *Invited Speaker*
Mathematics Research Course, Stuyvesant High School (P. Brooks, Coordinator)
- Talks Given:
1. *The Jordan Normal Form of a Linear Transformation*
 2. *The Classification Theorem for Compact Surfaces*
 3. *Calculus with Complex-Valued Functions of a Complex Variable*
 4. *Quine Minimization* [available via <http://josephstern.info>]
- 2007—2008 *Co-Founder & Invited Speaker*
Stuyvesant High School Faculty Colloquium in Mathematics and Computer Science
- Talks Given:
1. *A Proof of the Fundamental Theorem of Algebra Suitable for Honors Precalculus*
 2. *A New Derivation of the Geometric Loci of Euler and Guinand*
- 2007—2008 *Faculty Editor*
MATH SURVEY — Stuyvesant High School Journal of Mathematics
[Volume **82** (2008) available via <http://www.josephstern.info>]
- 2002—2008 *Assistant Coach*
New York City Math Team
2008 Winner of the American Regions Mathematics League (ARML) Competition
- 2003—2005 *Curriculum Designer*
Freshman Year Honors Geometry, Stuyvesant High School
- **Fall**: Foundations of Geometry — Neutral, Euclidean, and Hyperbolic
 - **Spring**: Techniques of Euclidean Geometry in Dimensions 2 and 3

KATE PACCIORETTI

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SECONDARY ENGLISH LANGUAGE ARTS TEACHER

CONTACT

EDUCATION

Montclair State University
Montclair, NJ
Bachelor's Degree - English, Business
Alpha Lambda Delta's Honor Society Member
3.6 GPA in English program

University of Westminster
London, UK
Study Abroad - Shakespeare Studies

PRIOR CAREER

Phillips Pet Food & Supplies
Category/Brand Manager
April 2019 – February 2023

Family Dollar
Associate Category Merchant
February 2018 – March 2019

Party City
Senior Category/Program Manager
October 2012 – January 2018

PRAXIS TESTS

5038 English Language Arts: Content Knowledge
187/200 (average range 170-185)

5047 Middle School Language Arts –
179/200 (average range 151-170)

5713 Core Skills for Educators: Reading
198/200 (average range 158-184)

5723 Core Skills for Educators: Writing
184/200 (average range 156-170)

5733 Core Skills for Educators: Math
196/200 (average range 152-182)

5221 Speech Communication: Content Knowledge
169/200 (average range 149-168)

5224 Journalism
184/200 (average range 172-187)

5358 Gifted Education
166/200 (average range 159-170)

WORK EXPERIENCE

English Language Arts Teacher, Core Skills, 6th Grade - Long Term Substitute

Jefferson Township Middle School

February 2025 - Present

- Collaborated with 6th grade ELA teachers to co-design a multi-classroom research project on Civil Liberties, culminating in a structured 4 paragraph paper and follow-up creative assessments
- Designed and implemented a rotating, student-choice curriculum targeting skill gaps in reading, writing, grammar, vocabulary, and public speaking for grades 6-8, using differentiated worksheets created from EdCite, original content, and AI tools to engage diverse learners in pull-out sessions
- Addressed ongoing interpersonal conflicts through strategic seating changes, structured routines, and consistent, personalized behavior coaching rooted in restorative practices to foster a respectful and supportive classroom environment
- Initiated and facilitated a weekly mini-PLC with fellow Core Skills and ELA teachers to align interventions, share resources, and collaborate on student support strategies

English Language Arts Teacher, 7th Grade - Long Term Substitute

Jefferson Township Middle School

September 2024 - February 2025

- SGO based on thesis statement development: target goal 25% growth, achieved 306% growth
- Developed and delivered engaging lessons on various novels, narrative writing, and essay writing, emphasizing critical thinking and structured analysis
- Designed and implemented strategies to analyze student essays for originality and AI usage, ensuring academic integrity while providing constructive feedback
- Adapted teaching methods to meet diverse learning needs, fostering a supportive and inclusive classroom environment
- Collaborated with colleagues to align curriculum and assessments, contributing to a cohesive English Language Arts program

Media Specialist, High School - Long Term Substitute

Jefferson Township High School

April 2024 - June 2024

- Assist in library management by keeping accurate records, re-organizing the class book room, and providing printing and laminating support to faculty
- Promoting a positive and safe atmosphere for students through conflict management, relationship building, and academic support

English Language Arts Teacher, 10th Grade - Long Term Substitute

Jefferson Township High School

February 2024

- Developed and implemented honors-level lesson plans about *The Scarlet Letter*, diving into Hawthorne's background, relevant literary movements, and fostering a deep understanding of the material among students
- Collaborated effectively with experienced co-teachers in regular classes, leveraging their expertise while actively contributing to the teaching process
- Established strong rapport with students across diverse classes, creating a positive learning environment conducive to academic growth and personal connection, as evidenced by enthusiastic feedback from students

Instructional Substitute, Middle and High School

Jefferson Township Public Schools

December 2023 - March 2024

- Aided in distributing lesson plans in the absence of the teacher, helping students with questions when possible, and managed student behavior and productivity