

JESSICA A. MINTZ, PH.D.

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TEACHING AND RESEARCH INTERESTS

Meaningful science professional development; science teacher professional evaluation; intrinsic science teacher motivation; flipped instruction; NYSSLS implementation; high school chemistry education.

ACADEMIC CREDENTIALS AND EXPERIENCE

HIGHER EDUCATION

Stony Brook University, Stony Brook, NY

Educational Leadership Advanced Graduate Certificate	May 2022
Ph.D., Science Education	2017
Dissertation Title: <i>The impacts of the annual professional performance review in New York State: Science teachers' and administrators' perspectives</i>	
M.A.T., Biology	2006
B.S., Biology	2003

EXPERIENCE

Secondary Science Teaching (Grades 7-12)

Science Teacher, Bay Shore Union Free School District, Bay Shore High School, Bay Shore, NY	2007-present
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Other Professional Experience

Pre-AP Chemistry Readiness Workshop Consultant	2021- present
New York State Master Teacher Emeritus	2019-present
Distance Learning Mentor, Bay Shore Union Free School District – Bay Shore, NY	2020-2021
New York State Master Teacher	2015-2019

EDUCATIONAL LICENSURE

New York State School District Leader	2022
New York State School Building Leader	2022
New York State Professional Teacher, Chemistry 7-12, Biology 7-12	2011

RESEARCH AND SCHOLARSHIP

PUBLICATIONS

- [1] Mintz, J. A., & Kelly, A. M. (2021). Science teacher motivation and evaluation policy in a high-stakes testing state. *Educational Policy*, 35(1). <https://doi.org/10.1177/0895904818810520>
- [2] Mintz, J. A. (2020, Dec 2). *Adjusting a types of reactions lab for virtual*. Chem Ed Exchange. <https://www.chemedx.org/activity/adjusting-types-reactions-lab-virtual>
- [3] Mintz, J. A. (2019, Aug 9). *Intrinsic motivation for the chemistry teacher – time to collaborate*. Chem Ed Exchange. <https://www.chemedx.org/article/intrinsic-motivation-chemistry-teacher-%E2%80%93-time-collaborate>
- [4] Mintz, J. A. (2017). *The impacts of the annual professional performance review in New York State: Science teachers' and administrators' perspectives*. (Publication No. 10619372) [Doctoral dissertation, Stony Brook University]. ProQuest Dissertations Publishing

PEER REVIEWED CONFERENCES

National and International Conference Posters

- [1] Mintz, J.A. & Kelly, A. M. (2017, April). *Science Teacher and Administrator Perspectives of Teacher Evaluation Systems*. Poster presented at the Annual Conference of the National Association of Research in Science Teaching, San Antonio, TX, United States.
- [2] DeSerio, J.A. George W. Hunter: The Civic Monkey. Poster Presentation at 7th Annual NSF Robert Noyce Teacher Scholarship Program Conference Washington, D.C. (May 24, 2012)

Local and Regional Conference Presentations

- [1] Mintz, J. A. (2021, Nov). *You Can Graph Too. A systemic approach in the evolution of student digital graphing.* Presentation at the 125th Annual Science Teachers Association of New York State. Rochester, NY.
- [2] Mintz, J. A. & O'Brien, S. (2019, Dec). *A basic approach to a NYSSLS acid base unit.* Presentation at the Long Island Science, Technology, Engineering and Math Educational Leadership Association Annual Conference. Woodbury, NY.
- [3] Mintz, J. A. & Shanzer, M. (2019, Nov). *The solution to NYSSLS formative assessment through station activities.* Presentation at the 124th Annual Science Teachers Association of New York State. Rochester, NY.
- [4] Mintz, J. A. & Shanzer, M. (2018, Nov). *Improvisation for the classroom teacher.* Presentation at the 123rd Annual Science Teachers Association of New York State. Rochester, NY.
- [5] Mintz, J. A. & Shanzer, M. (2017, March). *Don't stress about the shift to NGSS: A phenomenological approach to teaching equilibrium.* Workshop at Suffolk Science Teachers Association of New York Spring Conference. Brookhaven, NY.
- [6] Mintz, J.A. & Shanzer, M. (2016, Nov). *Flipping chemistry.* Presentation at the 121st Annual Science Teachers Association of New York State. Rochester, NY.
- [7] Mintz, J.A., Dinota, K., Drury, K., Foley, M., Gultaizer, J., O'Brien, S., Palermo, M., Shanzer, M., (2015, Nov). *Picture this! Exploring chemical demonstration concepts through digital images and photo journals.* Presentation at the 120th Annual Science Teachers Association of New York State. Rochester, NY.

Bay Shore School District Professional Development Workshops

- [1] Mintz, J.A. (2022, April). *A Piece of Cake - Cutting Through the NYSSLS Cross Cutting Concepts.* Workshop Presentation at Bay Shore School District. Bay Shore, NY
- [2] Mintz, J.A. (2021, October). *Pace Yourself. An Introduction to Self-Paced Learning.* Workshop Presentation at Bay Shore School District. Bay Shore, NY
- [3] Mintz, J.A. (2021, May). *A "Virtual" Reflection on a Virtual Year.* Workshop Presentation at Bay Shore School District. Bay Shore, NY
- [4] Mintz, J.A. (2021, March). *Insert[Edpuzzle, Youtube, Quizlet, Questions, Highlight]Learning.* Workshop Presentation at Bay Shore School District. Bay Shore, NY
- [5] Mintz, J.A. (2021, Feb). *A GIF-tastic Workshop.* Workshop Presentation at Bay Shore School District. Bay Shore, NY.
- [6] Mintz, J.A. (2021, Jan). *Interactive Google Slides.* Workshop Presentation at Bay Shore School District. Bay Shore, NY.
- [7] Mintz, J.A. (2020, Dec). *Digital science labs.* Workshop Presentation at Bay Shore School District. Bay Shore, NY.
- [8] Mintz, J.A. (2018, Nov). *Argumentation using claim, evidence and reasoning.* Workshop Presentation at Bay7Shore School District. Bay Shore, NY.
- [9] Mintz, J.A. (2018, March). *Question formulation technique.* Workshop Presentation at Bay Shore School District. Bay Shore, NY.
- [10] Mintz, J.A. (2018, Jan). *Interactive video lesson creation.* Workshop Presentation at Bay Shore School District. Bay Shore, NY.
- [11] Mintz, J.A. (2017, Oct). *Flipped classroom made easy.* Workshop Presentation at Bay Shore School District. Bay Shore, NY.

PROFESSIONAL HONORS – SCHOLARSHIP

<i>Science Teacher Association of New York State High School Science Teacher of the Year Award</i>	2022
<i>Howard Hughes Doctoral Student Fellowship - Center for Science & Mathematics Education, Stony Brook University</i>	
<i>Robert Noyce Fellowship Recipient</i>	2006
<i>Stony Brook Seawolves Women's Lacrosse NCAA Division I Athletics</i>	2001-2003
<i>American East Conference 2003 Winter/Spring Academic Honor Roll</i>	2003
<i>U.S.S. Intrepid Scholarship Winner</i>	1999

TEACHING AND COURSE DEVELOPMENT

SCIENCE EDUCATION COURSES TAUGHT

Bay Shore School District

Chemistry

Introduction to Pre-Hospital Emergency Care

The Living Environment

Life Science

Undergraduate Teaching Assistant, Stony Brook University

Mammalian Physiology Laboratory Instructor

Spring 2006

AFFILIATIONS

PROFESSIONAL AFFILIATIONS

Science Teacher Association of New York (STANYS) – 6 years

American Association of Chemistry Teachers (AACT) – 2 years

National Science Teachers Association (NSTA) – 1 year

New York State Master Teacher Emeritus – 3 years

Chem Ed Exchange Contributor - 2 years

Pre-Advanced Placement Chemistry National Faculty – 1 year