

DANIEL A. MARTENS YAVERBAUM, Ph.D.
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-- PEDAGOGICAL EXPERIENCE --

2012-Present

JOHN JAY COLLEGE OF CRIMINAL JUSTICE,
THE CITY UNIVERSITY OF NEW YORK; NEW YORK, NY

Coordinator, Physics

Doctoral Lecturer, Physics

- Serve as physics Course Coordinator.
- Manage and support all physics programming and personnel.
- Teach both levels of calculus-based physics course sequence required for forensic science majors.
- Create all curricular materials for all lectures and lab; all physics materials fully original at John Jay
- Implement instruction for contemporary forensic science majors.
- Teach and oversee physics courses for nonscience majors
- Teach Science Forward Course for Macaulay Honors College.
- Serve on Student Evaluation of Faculty Committee

2009-2010

THE CAMPAIGN FOR EDUCATIONAL EQUITY; NEW YORK, NY

Research Associate

- Analyzed and tracked education component of 2009 American Recovery and Reinvestment Act
- Co-Authored and presented *Stimulating equity? A preliminary analysis of the impact of the federal stimulus act on educational opportunity at national symposium*. Paper covered in New York Times, February 8, 2010, p. A11.

2007-2009

BERKSHIRE SCHOOL (9-12, BOARDING); SHEFFIELD, MA

Director, Dixon Observatory

Teacher, A.P. Physics

- Oversaw re-opening of on-campus astronomical observatory, 24-inch reflecting scope
- Created And Still It Moves: original text and curriculum on heliocentricity
- Taught A.P. Physics C, Advanced Physics and Astronomy
- Served as dormitory parent and assistant coach

THE LAKEVILLE JOURNAL, THE WINSTED JOURNAL,

THE MILLERTON NEWS; LAKEVILLE, CT

Columnist

- Wrote bi-weekly “Star-Gazing” column for local newspapers
<http://tcextra.com/search/search.php?query=yaverbaum&search=1>
- Held public seminars on astronomy and physics, requested and promoted by local press

2006-2007

BERKSHIRE COUNTRY DAY SCHOOL (K-12); LENOX, MA

Teacher, A.P. Physics

- Taught Advanced Physics, Conceptual Physics, Astronomy, 7th grade Physics
- Developed and used paperless curriculum until school closed in funding crisis

2005-2006

CARY ACADEMY (6-12); CARY, NC

Teacher, Honors Physics

Teacher, Trigonometry

- Taught Honors Physics and Trigonometry & Functions
- Integrated pre-calculus curriculum with physics curriculum
- Elected 2007 Baccalaureate Speaker

2003-2005

PIERREPONT SCHOOL (K-7); WESTPORT, CT

Dean Of Studies

- Managed faculty from all departments
- Coordinated original math/science curricula with humanities curricula

Head Of Math and Science

- Constructed and taught original K-7 math and science curricula
- Applied national standards
- Conducted weekly department meetings
- Created “POW!”: 2-volume Problem-Of-the-Week program for whole student body

1997-2003

SAINT ANN’S SCHOOL (K-12); BROOKLYN, NY

Teacher, A.P. Physics

- Initiated and implemented ABC physics course program
(max. offerings from min. prerequisites)
- Taught A.P. Physics C
- Created and taught
- Physics A (no math prereq.)
- Physics D (prereq.: AP Physics)
- Electronics

- Co-created, taught 6th grade Physics
- Twice elected faculty Commencement Speaker (1999, 2003)

1992-1996

ISIDORE NEWMAN SCHOOL (K-12); NEW ORLEANS, LA

Teacher, A.P. Physics

- Taught AP Physics C, AP Physics B and Physics
- Taught Humanities: inter-departmental requirement for seniors
- Coached and taught member of U.S. Physics (Olympiad) team, 1995, 1996
- Coached Lincoln-Douglas Debate, including 1995 National Forensic League Champion.
- Appointed 1996 Commencement Keynote Speaker,
- First Newman faculty member to be keynote speaker

1994-2006 Summers

NATIONAL SUMMER INSTITUTE IN FORENSICS (9-12),

UNIVERSITY OF IOWA; IOWA CITY, IA

Director, Senior Philosophers

- Created and taught primary-text philosophy program for national circuit Lincoln-Douglas Debate seniors
- Ran teaching lab for top national competitors

-- EDUCATION --

2024

COLUMBIA UNIVERSITY; NEW YORK, NY

- Ph.D., Science Education, Department of Math, Science and Technology
- Dissertation title: "Transforming Reference Frames: How Student Mental Models regarding Velocity Evolved Through A Physics Course Framed by Galileo's Principle of Relativity"

2003

CITY COLLEGE OF NEW YORK,

THE CITY UNIVERSITY OF NEW YORK; NEW YORK, NY

- M.A., Physics

1992

AMHERST COLLEGE; AMHERST, MA

- B.A., Physics
- B.A., Philosophy, Magna Cum Laude.
- Elected 1992 Commencement Speaker