

Abraham S. Mantell

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Home: 2207 Second Street, East Meadow, NY 11554-1807 – (516) 794-7679

Work: Department of Mathematics, Computer Science, and Information Technology
Nassau Community College, Garden City, NY 11530-6793 – (516) 572-8092

ACADEMIC EXPERIENCE

- **Professor**: Nassau Community College, Garden City, NY (9/09 – present)
Associate Professor (9/03 – 8/09), **Assistant Professor** (9/98 – 8/03), **Instructor** (9/93 – 8/98)
Teach all levels of mathematics and advise students.
- **Mathematics Instructor** (Adjunct): Hofstra University, Hempstead, NY (9/96 – present)
Instructor: teach a variety of undergraduate mathematics courses.
- **Professor** (Adjunct): Webb Institute, Glen Cove, NY (8/04 – 12/06)
Instructor: taught introductory Differential Equations.
- **Mathematics Instructor** (Adjunct): U.S. Merchant Marine Academy, Kings Point, NY (11/03 – 3/04)
Instructor: taught Calculus II.
- **Mathematics Instructor** (Adjunct): Polytechnic University, LI & Brooklyn, NY (6/00 – 8/03)
Instructor: taught a variety of undergraduate mathematics courses.
- **Mathematics Lecturer** (Adjunct): Suffolk Community College, Selden, NY (9/92 – 8/93)
Instructor: taught various math courses at the two-year level.
- **Technical Assistant** (P/T): Suffolk Community College, Selden, NY (9/91 – 8/93)
Mathematics Tutor: tutored students from a variety of math courses.
- **Mathematics Lecturer** (Graduate TA): SUNY at Stony Brook, Stony Brook, NY (9/90 – 5/93)
Instructor: taught undergraduate applied mathematics.
- **Technical Assistant** (P/T): Nassau Community College, Math Center, Garden City, NY (7/86 – 8/93)
Mathematics Consultant: tutored and advised students from a variety of courses.
- **Mathematics Lecturer** (Adjunct): Dowling College, Oakdale, NY (9/87 – 5/90)
Instructor: taught undergraduate mathematics.

COURSES TAUGHT

Basic Mathematics (college preparatory)

Mathematical Excursions

Elementary Statistics

Algebra and Trigonometry

Engineering Technical Mathematics I & II

Calculus I & II

Elementary Differential Equations

Discrete Mathematics

Foundations of Advanced Mathematics

Mathematical Methods in the Physical Sciences (Independent Study)

Numerical Analysis of Applied Differential Equations (Independent Study)

Introductory Algebra (college preparatory)

Logic and Set Theory with Probability

Finite Mathematics

PreCalculus

Probability and Statistics (calculus based)

Multivariable Calculus

Linear Algebra

Abstract Algebra

EDUCATION

- **A.B.D., Applied Mathematics**, (September 1990 – May 1993)
State University of New York at Stony Brook, Stony Brook, New York
- **M.S., Applied Mathematics**, May 1990
State University of New York at Stony Brook, Stony Brook, New York
- **B.S., Mathematics** (Minor: Social Psychology), August 1987
Rensselaer Polytechnic Institute, Troy, New York

AWARD

- **Distinguished Educators Award** – East Meadow Civic and Community Service Association, Oct. 2003

PUBLICATIONS

- *CliffsNotes Math Review for Standardized Tests*, March 2010. Wiley Publishing, Inc. [Technical Editor]
- *CliffsNotes GMAT Cram Plan*, January 2010. Wiley Publishing, Inc. [Technical Editor]
- *CliffsNotes GRE General Test Cram Plan*, August 2009. Wiley Publishing, Inc. [Technical Editor]
- *CliffsNotes SAT Cram Plan*, July 2009. Wiley Publishing, Inc. [Technical Editor]
- *Hyperoxia Inhibits Oxidant-induced Apoptosis in Lung Epithelial Cells*, *Journal of Biological Chemistry*, Vol. 276, Issue 1, 569–575, January 5, 2001 [Provided the statistical analysis.]
- *Problem #317*, *Mathematics and Computer Education*, Vol. 28, No. 3, p. 337, Fall 1994

PRESENTATIONS

- **Nassau Science Explorations LTD:** Hofstra University, Hempstead, NY
April 7, 2009; March 18, 2008; May 22, 2007; April 11, 2006; March 31, 2005; May 26, 2004;
April 15, 2003. Speaker: *Number Giants and Infinities*
- **Hofstra's High School University Seminar Series:** Garden City High School, Garden City, NY
March 26, 2009. Speaker: *Number Giants and Infinities*
- **The 22nd Annual LIMAÇON – Long Island Mathematics Conference:** SUNY at Old Westbury,
March 28, 2008. Speaker (gave two presentations):
 1. *Number Giants and Infinities*
 2. *Linear Regression via Recursion (i.e. without Calculus)*
- **Teachers Teaching with Technology – T³ Regional Conference:**
Molloy College, Rockville Centre, NY, November 17, 2007.
Speaker: *It has to be right, that's what my calculator "says"!!!*
- **The 33rd American Mathematical Association of Two-Year Colleges (AMATYC) Annual Conference:**
Minneapolis, MN, November 3, 2007. Speaker: *It has to be right, that's what my calculator "says"!!!*
- **Monroe Community College:** Rochester, NY, June 8, 2007.
Invited Speaker: *AMATYC's Beyond Crossroads Workshop*
- **The Metropolitan New York Section of the Mathematical Association of America (MAA) Spring Meeting:**
Sarah Lawrence College, Bronxville, NY, May 6, 2007.
Paper Presentation: *It has to be right, that's what my calculator "says"!!!*
- **New York State Mathematics Association of Two-Year Colleges (NYSMATYC) Annual Meeting:**
Niagara Falls, NY, April 20, 2007. Speaker: *AMATYC's Beyond Crossroads: Where Does it Lead?*
- **The 19th Annual International Conference on Technology in Collegiate Mathematics (ICTCM):**
Boston, MA, February 16, 2007. Paper Presentation: *It has to be right, that's what my calculator says!!!*
- **Teaching Mathematics: Innovations for Student Success** (Prentice Hall Mathematics Education Workshop):
Southern Connecticut State University, New Haven, CT, March 19, 2005.
Invited Speaker: *It has to be right, that's what my calculator "says"!!!*
- **Teachers Teaching with Technology – T³ Regional Conference:**
Molloy College, Rockville Centre, NY, October 16, 2004
Speaker: *It has to be right, that's what my calculator "says"!!!*
- **New York State Mathematics Association of Two-Year Colleges (NYSMATYC) Annual Meeting:**
Kingston, NY, April 25, 2004. Speaker: *DPGraph: A Graphical Learning Tool*
- **Nassau County Mathematics Teachers Association (NCMTA) Student Symposium in Mathematics:**
Molloy College, Rockville Centre, NY, March 17, 2004. Speaker: *Number Giants and Infinities*
- **Marist College Mathematics Seminar:** Marist College, Poughkeepsie, NY, November 7, 2003.
Invited Speaker: *Number Giants and Infinities*
- **New York State Mathematics Association of Two-Year Colleges (NYSMATYC) Annual Meeting:**
Rochester, NY, April 12, 2003. Speaker: *Linear Regression in PreCalculus via Recurrence Relations*

PRESENTATIONS (continued)

- **New York State Mathematics Association of Two-Year Colleges (NYSMATYC) Region IV Meeting:** LaGuardia Community College, Long Island City, NY, November 23, 2002.
Speaker: *Linear Regression in PreCalculus via Recurrence Relations*
- **BCC's Fifth Annual Instructional Technology Day:** Bronx Community College
Bronx, NY, November 8, 2002. Speaker, gave two presentations:
 1. *The TI-83: A Handheld Graphical and Computational Learning Tool*
 2. *DPGraph: A Graphical Learning Tool*
- **Hillcrest High School:** Jamaica, Queens, NY, February 2000 – 2002 (once or twice/year)
Guest Speaker (for the Honor's Calculus Class): *Number Giants and Infinities*,
this talk is listed with the *Metropolitan New York Section of the MAA Speaker's Bureau*:
<http://www.maa.org/metrony/speakers>
- **77th Annual Meeting of the National Council of Teachers of Mathematics (NCTM):**
San Francisco, CA, April 23, 1999. Speaker: *So, You Think Calculators Have All the Answers?*
- **New York State Mathematics Association of Two-Year Colleges (NYSMATYC) Annual Meeting:**
Saratoga Springs, NY, April 5, 1997. Speaker: *Counter-Examples with the Graphing Calculator*.
- **The 9th Annual International Conference on Technology in Collegiate Mathematics (ICTCM):**
Reno, NV, November 10, 1996. Speaker: *Teaching Single and Multi-Variable Calculus and Differential Equations with the TI-85 Graphics Calculator*.
- **C.H.A.T. (Calculators Help All Teachers):** Mineola High School, NY, October 21, 1995.
Speaker: Introduced the principles of the *Harvard Calculus Reform Project* with applications involving handheld technology.

PROFESSIONAL ACTIVITIES

• REGIONAL

New York State Mathematics Association of Two-Year Colleges (NYSMATYC)

Math League Contest Coordinator (2009 – present)

Past-President (2007 – 2008) ♦ President (2006 – 2007) ♦ President-Elect (2005 – 2006)

Member-at-Large (2003 – 2005) ♦ Scholarship Chair (2001 – 2003)

Web-Master - www.nysmatyc.org (1998 – 2003)

Metropolitan New York Section of the Mathematical Association of America (MAA)

Speakers Bureau Chair (2006 – present) ♦ Newsletter Editor (1999 – present)

Chair (2003 – 2006) ♦ Chair-Elect (2001 – 2003) ♦ Vice-Chair for Two-Year Colleges (1999 – 2001)

Campus Rep (at NCC): MAA – Campus Liaison (1994 – present)

NYSMATYC – Campus Representative (1995 – 2009)

Coordinator:

NYSMATYC Math League (at NCC): 1995 – 2009

COMAP's Mathematical Contest in Modeling (at NCC): 1997, 1998

The William Lowell Putnam Mathematical Competition (at NCC): 1998, 1999, 2007, 2008

ACUI Region 3 Recreation Committee – Table Tennis Director: 1998

Judge: The Long Island Science and Engineering Fair: 2004 – 2006, 2008, 2009

The Long Island Math Fair: 1993 – 2009

The Greater Metropolitan New York Math Fair: 2004, 2005, 2007 – 2009

Reader/Grader: The College Board Advanced Placement Exam in *Calculus*, June 2003

The College Board Advanced Placement Exam in *Statistics*, June 2002

External Reviewer: Reviewed and evaluated the Mathematics Degree Program for Suffolk County Community College, July 2004.

Advisor & Coach: Hofstra University Table Tennis Club & Team: 2008 – present

- **CAMPUS-WIDE AND DEPARTMENTAL (Nassau Community College)**

Department P&B (Personnel & Budget) Committee (2003 – present)

Professional Practices Committee (2004 – 2006, 2008 – 2010), Chair (2005 – 2006, 2008 – 2009)

Mathematics Program Director (2003 – 2008)

Promotion and Tenure Committee (2006 – 2008)

Departmental Election Committee (2005 – 2006)

Scholarship Awards & Student Aid Committee (1994 – 1998, 2004 – 2006)

Department Delegate to the NCCFT (Faculty Union) Executive Board (2001 – 2005)

Faculty Student Association (2001 – 2004)

Academic Senator (2001 – 2003)

Honors Committee (1999 – 2003)

Chancellor's Award Committee (1998 – 2000)

Course Committee Chair: MAT 123: Calculus II (2003 – 2005)

MAT 131: Probability with Statistical Inference (2000 – 2006)

MAT 200: Foundations of Advanced Mathematics (1998 – present)

MAT 234: Introduction to Differential Equations (1995 – 2007)

MAT 241: Discrete Mathematical Structures (1996 – 2006)

PROFESSIONAL MEMBERSHIPS

American Mathematical Association of Two-Year Colleges (AMATYC)

American Federation of Teachers (AFT)

Mathematical Association of America (MAA)

New York State Mathematics Association of Two-Year Colleges (NYSMATYC)

New York State United Teachers (NYSUT)

PERSONAL INTERESTS AND HOBBIES

Games: Chess, Backgammon.

Reading: Math, Chess, Science, Self-Help, Problems and Puzzles, Biographies.

Sports: Handball, Table Tennis, Pocket Billiards, Tennis, Racquetball, Health & Fitness.