Abraham S. Mantell

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Work: Department of Mathematics, Computer Science, and Information Technology
       Nassau Community College, Garden City, NY 11530-6793 – (516) 572-7383 ext. 26841

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, advise students, serve(d) on departmental and campus-wide committees.
- **Assistant Professor** (Adjunct): Hofstra University, Hempstead, NY (9/09 – present),
  Instructor (Adjunct: 9/96 – 8/09): 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, Long Island & 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 a variety of math courses.
- **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): Stony Brook University, 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)	Introductory Algebra (college preparatory)
Mathematical Excursions	Logic and Set Theory with Probability
Elementary Statistics	Finite Mathematics
Algebra and Trigonometry	PreCalculus
Engineering Technical Mathematics I & II	Foundations of Mathematics for Educators
Calculus I, II, and III	Probability and Statistics (calculus based)
Elementary Differential Equations	Linear Algebra
Discrete Mathematics	Abstract Algebra
Foundations of Advanced Mathematics	Introduction to Higher Mathematics

Mathematical Methods in the Physical Sciences (Independent Study)
Numerical Analysis of Applied Differential Equations (Independent Study)
Probability for Actuarial Science (Independent Study)
Advanced Engineering Mathematics I (Independent Study)

EDUCATION

- **A.B.D., Applied Mathematics**, (1990 – 1993). Stony Brook University, Stony Brook, New York
  Topic: Numerical Solutions of the Partial Differential Equations Arising from MAGLEV Studies
- **M.S., Applied Mathematics**, 1990. Stony Brook University, Stony Brook, New York
- **B.S., Mathematics** (Minor: Social Psychology), 1987. Rensselaer Polytechnic Institute, Troy, New York

AWARDS
- **Distinguished Service Award**
  Metropolitan New York Section of the Mathematical Association of America, May 2010
- **Outstanding Contributions to NYSMATYC Award**
  New York State Mathematics Association of Two-Year Colleges, April 2010
- **Distinguished Educators Award**
  East Meadow Civic and Community Service Association, October 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
- **MAA MathFest 2015** (Summer Meeting of the Mathematical Association of America):
  Washington, D. C., August 7, 2015. Speaker: *Coordinating a State-Wide Math Contest*
- **The 27th Annual Family Math Day** (Sponsored by NCAMS & NCMTA): Plainview, NY, March 20, 2015
  Speaker: *How big is a googol? How about a googolplex?*
- **The 62nd Annual AMTNYS Meeting**: Rye Brook, NY, November 9, 2012
  Speaker: *Just how big is a googol? How about a googolplex?*
- **Nassau Science Explorations LTD**: Hofstra University, Hempstead, NY
  May 22, 2012; May 24, 2011; 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*
- **The 25th Annual LIMAÇON – Long Island Mathematics Conference**: SUNY at Old Westbury,
  March 18, 2011. Speaker: *Just how big is a googol? How about a googolplex?*
- **Teachers Teaching with Technology – T³ Regional Conference**:
  Molloy College, Rockville Centre, NY, November 6, 2010.
  Speaker: *It has to be right, that's what my calculator "says"!!!*
- **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!!!*

PRESENTATIONS (continued)

- **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*
- **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://sections.maa.org/metrony/ProposedTalks.html
- **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**

  The Mathematical Association of America (MAA)
  Committee on Panels, Poster Sessions, and Workshops - a subcommittee of the Council on Meetings and Professional Development (2018 – 2021) ♦ Committee on Two-Year Colleges (2015 – 2018) Board of Governors (2014 – 2017)

  Metropolitan New York Section of the Mathematical Association of America (MAA)
  Newsletter Editor (1999 – present) ♦ Governor (2014 – 2017) ♦ Speakers Bureau Chair (2006 – 2014) Chair (2003 – 2006) ♦ Chair-Elect (2001 – 2003) ♦ Vice-Chair for Two-Year Colleges (1999 – 2001)

  New York State Mathematics Association of Two-Year Colleges (NYSMATYC)
  Math League Contest Coordinator (2009 – present)
  Past-President (2013 – 2014) ♦ President (2012 – 2013) ♦ President-Elect (2011 – 2012)
  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)

- **LOCAL**

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, 2010, 2011, 2013, 2014, 2017
ACUI Region 3 Recreation Committee – Table Tennis Director: 1998

Judge: The Long Island Math Fair: 1993 – present
MathFest 2015: Student Paper Presentations, Washington, D.C., August 2015.
The Greater Metropolitan New York Math Fair: 2004, 2005, 2007 – 2010
The Long Island Science and Engineering Fair: 2004 – 2006, 2008, 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 & May 2018.

Advisor & Coach: Hofstra University Table Tennis Club & Team: 2008 – 2009

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

Department P&B (Personnel & Budget) Committee (2003 – present), Secretary (2014 – 2015)
Calendar Committee, NCCFT (Faculty Union) Designee, Chair (2012 – 2013)
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: Elementary Differential Equations (1995 – 2007)
MAT 241: Discrete Mathematical Structures (1996 – 2006)

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science (AAAS)
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.