

## **CURRICULUM VITA**

**Manoug Manougian, Ph.D.**  
**Professor/ Director CMS**  
**Department of Mathematics and Statistics**

### **EDUCATION**

Ph.D. (1968) University of Texas, Austin  
M.A. (1964) University of Texas, Austin  
B.A. (1960) University of Texas, Austin

### **ACADEMIC POSITIONS**

Director, Center for Mathematical Services, (2010 – present)  
Professor (1976 – present) Univ. of South Florida  
Chairman (1974 – 84) Univ. of South Florida  
Assoc. Professor (1971 – 76) Univ. of South Florida  
Assist. Professor (1968 – 71) Univ. of South Florida  
Teaching Assoc. (1966 – 68) Univ. of Texas, Austin  
Assist. Professor (1964 – 66) Haigazian College  
Instructor (1960 – 62) Haigazian College  
Instructor (1954 – 56) St George's School

### **GRANTS**

Academy of Applied Science, Director, (\$5600) 2011  
Gifted Student Program, Director,  
Honors College, U.S.F. (\$10,000 ) 2003 - 2004  
(Florida Department of Education/ Governor's program)  
Gifted Student Program, Director, Co-PI (\$80,000) - 2001  
Gifted Student Program, Director, Co-PI (\$78,204) - 2000  
Gifted Student Program, Director, Co-PI (\$97,000) - 1999  
Gifted Student Program, Director, Co-PI (\$89,675) - 1998  
Gifted Student Program, Director, Co-PI (\$91,000) - 1997  
Gifted Student Program, Director, Co-PI (\$81,000) - 1996  
Gifted Student Program, Director, Co-PI (\$80,500) - 1995  
Gifted Student Program, Director, Co-PI (\$80,848) - 1994  
Gifted Student Program, Director, Co-PI (\$73,328) - 1993  
Gifted Student Program, Director, Co-PI (\$79,130) - 1992  
Gifted Student Program, Director, Co-PI (\$68,798) - 1991  
Gifted Student Program, Director, Co-PI (\$71,518) - 1990  
National Science Foundation, Director, PI (\$27,395) - 1977  
National Science Foundation, Director, PI (\$21,500) - 1971

## AWARDS AND HONORS

Outstanding Undergraduate Teaching Award, USF, 2003/04  
Outstanding Undergraduate Teaching Award, USF, 2001/02  
Outstanding Teaching Award, TIP, USF, 1998/99  
Outstanding Undergraduate Teaching Award, USF 1996/97  
Outstanding Teaching Award, TIP, USF, 1994/95  
Outstanding Educator of America 1971  
Armenian Gen. Ben. Union, NY, scholarship awards, 1962, 1966, 1967  
Gulbenkian Foundation, scholarship award, 1962  
Armenian Professional Society (Los Angeles) Award, 1962  
Honorary Texas Citizen, 1959  
Scholarship Awards to study at the University of Texas, 1956 – 60  
Y.M.C.A. Scholarship Awards, 1949 – 54

## PROFESSIONAL ACTIVITIES

Director, Center for Mathematical Services, 2010 – present  
CAS Instructor Promotion Committee, 2010 – 2013  
Chair, defense of Ph.D. dissertations, Physics Department, 2009, 2010  
Advisory Council member, College of Arts and Sciences 2002/03; 2005-07  
Member, Learning Community Task Force for USF, 1999 – 2000  
Member, Executive Committee, The Harrell Center for the Study of  
Family Violence, College of Public Health, 1997 – present  
Member, CAS Dean's Committee PEP Awards, 1996 – 97  
Undergraduate Committee member, 1995 – present  
Associate Council Member, Institute on Aging, 1995 – present  
Member, Calculus Reform Committee, 1994  
Chair, Dept. Guidelines Committee, 1993 – 94  
Faculty Advisory Committee 1993 – 94, and 1997 – 99  
Member, CAS Dean's Committee on statistics, 1993  
Committee member on numerous masters and doctoral students  
1975 – present  
Director, Gifted Student Program in Mathematics, Science, Computer  
Technology and Environmental Projects, 1971 – present  
Undergraduate Committee, College of Arts and Sciences, U.S.F, 1991 - present  
Faculty Senate, U.S.F. 1989 – 92  
University Budget Council, U.S.F. 1978 – 80  
General Education Council, College of Natural Sciences, U.S.F. 1971 – 73  
Coordinator, Applied Mathematics, Dept. Math., U.S.F. 1971 – 72  
Director, N.S.F. Student Science Training Program, U.S.F., 1971, 1977  
Assoc. Director, National Science Foundation Science Training Program  
Univ. of Texas at Austin, 1967, 1968  
Administrative Assistant, Haigazian College, 1964 – 66  
Founder and Director, Haigazian College Rocket Society, 1960 – 66

## RESEARCH INTERESTS

Applied mathematics; differential equations; oscillation theory; mathematics for the general public.

## RESEARCH ACTIVITIES AND PUBLICATIONS

### (a) *Applied Research*

Directed research on the design and construction of rocket propulsion systems (1960 – 66). The student program included the setting up of the required instruments for tests and measurements, and several static tests and launchings were performed to study rocket design, propulsion and trajectories. The program culminated in the successful launching of a 19-ft two-stage rocket with a range of 90 miles.

### (b) *Publications*

*Precalculus Algebra and Trigonometry*, 3rd Edition, (with Charles Odion), Brooks/Cole, textbook, publication date - 2012

*Precalculus Algebra and Trigonometry*, 2nd Edition, Mancorp Publishing, textbook, 1993

*All You Need to Know About the Lottery*, Mancorp Publishing, 1991

*College Algebra*, Second Edition, Book Publishers, Inc. textbook, 1986

*Intermediate Algebra*, (with Fred Zerla), Mariner Publishing Company, textbook, 1981

*Basic Algebra*, Saunders/Holt, Rinehart and Winston Publishing Company, textbook, 1981

*Trigonometry with Applications*, Mariner Publishing Company, textbook, 1980

*Stochastic differential inequalities in Banach spaces*, (with A. N. V. Rao and C. P. Tsokos), *Journal of Mathematics and Physical Sciences*, 1978

*College Algebra and Trigonometry*, Dellen Publishing Company, textbook, 1978

*Basic Concepts of College Algebra*, Dellen Publishing Company, textbook, 1978

*Introductory Calculus with Applications*, Second Edition, (with J. S. Ratti), Houghton Mifflin Company, textbook, 1977

*On a nonlinear stochastic integral equations with applications to control systems*, (with A. N. V. Rao and C. Tsokos), *Annali de Mat. Pura ed Applicata*, vol. CX, 1977

*Further results on oscillations of functional-differential equations*, (with A. G. Kartsatos)  
Journal of Mathematical Analysis and Applications, vol. 53, 1976

*Basic Concepts of Linear Algebra*, (with S. Isaak), Norton Publishing Company,  
textbook, 1976

*Perturbations causing oscillations of functional-differential equations*, (with A. Kartsatos)  
Proceedings of the American Mathematical Society, vol. 43, 1974

*Introductory Calculus with Applications*, (with J. S. Ratti), Houghton Mifflin Company,  
textbook, 1973

*Ordinary Differential Equations*, (with R. A. Northcutt), Merrill Publishing Company,  
textbook, 1973

*On Volterra's integral equation*, (with W. Wanamaker), Atti Accad. Naz. dei Lincei,  
Rendiconti, vol. 1, 1971

*An existence and uniqueness theorem for a nonlinear differential equation*, Journal of  
Differential Equations, vol. 8, 1970

*On a generalization of the Laplace transform*, (with W. Wanamaker), Bulletin de la  
Societe de Gr., vol. 11, 1970

*The Perron integral and existence and uniqueness theorems for a first order nonlinear differential  
equation*, Proceedings of the American Mathematical Society, vol. 25, 1970

*Sur l'inegalite de Gronwall*, Bulletin de la Societe de Gr., vol. 10, 1969

*On the convergence of a sequence of Perron integrals*, Proceedings of the American  
Mathematical Society, vol. 23, 1969

#### **EDITOR AND PUBLISHER**

Mancorp Publishing, Inc. published textbooks, reference and trade books (1984-2000). A list of selected titles edited and published by Manougian includes the following:

*Abstract and Applied Analysis*, This is a quarterly research journal, A. G. Kartsatos, Editor-in-Chief, with an editorial board of 40 research mathematicians representing 15 countries, March 1996 - 2000

*A Voyage of Discovery: From the Big Bang to the Ice Age*, Marc J. Defant 1998. This book received outstanding reviews from Nobel Laureates: Val L. Fitch (Princeton University), Mario J. Molina (M.I.T.) as well as Stephen Gould (Harvard University) Sir Alec Jeffries and (University of Leicester, U.K.), Stephen Moor bath (Oxford University, U.K.) and others.

*Applied Probability*, Chris P. Tsokos, 1997

*Extend Your Lifespan: How You Can Live a Long and Healthy Life*, Gary Holt, Mac McCrory, Gerald Norris, Jack Sandler, 1996

*Hear Me Now: Tragedy in Cambodia*, Sophal Leng Stagg, 1996

*The Principles of Tonal Music Theory: Fundamentals*, MacWilliam Disbrow, 1996

*Speaking Freely: Your Right of Free Speech and Its Legal Limitations*, Harold Van Winkle, 1995

*Advanced Ordinary Differential Equations*, Second Edition, A. G. Kartsatos,, 1993

*Data for Decision: Statistics in a Dynamic Economy*, Howard L. Balsley and J. J. Conway, 1992

*Research for Business Decisions: Business Research Methods*, Howard L. Balsley, 1992

*A Catastrophe in the Making*, Keith C. Barrons, 1991

*Elements of English Grammar: Rules Explained Simply*, Harold Van Winkle, 1990

*Introductory Algebra*, G. Mead, D. Powell and J. C. Young, 1985

*Set Theory with Applications*, S. Y. Lin and Y. F. Lin, 1985

#### **DIRECTED UNDERGRADUATE THESES (Recent)**

1. Mentor, Research paper, *The Effect of Drag on Artificial Earth Satellites*, by Anthony Ciesla, 2011
2. Director, Honors Thesis: *Mathematics in the Real World*, by Julie Manuel, 2010.
3. Director, Honors College Thesis: *Mathematics of Man-made Wonders of the World*, by Sarah Mustafa, 2010
4. Co-Director, (With Dr. M. Elhamdadi) Senior Thesis: *Knot Theory and the Braid Group and Their Applications in Cryptography*, by Grant Conine, 2010
5. Director, Honors College Thesis: *The Genocide of the Copts in Egypt*, by Karim Hanna, 2010

## OTHER EDUCATIONAL PROGRAMS

### 1. *Domestic Violence.*

Through a donation by a friend, I helped in establishing the Harrell Center for the Study of Domestic Violence, located in the College of Public Health at U.S.F.; and serve on its Executive Committee. Edited and published a book on the subject “*Working Together to End Domestic Violence*” authored by P. Jaffe, Nancy Lemon, Jack Sandler and David Wolfe, 1996

### 2. *Genocide and the Holocaust.*

Co-author and Associate Producer of a four-hour documentary made for television, examining the history of genocide and man’s inhumanity to man from early times to the present. *The Genocide Factor: The Human Tragedy* was produced by *Media Entertainment, Inc.* and distributed by PBS stations nationwide. It is introduced by award winning actor Jon Voight. The series received the **2002 Gold Special Jury Award** for best television documentary at the Houston International Film Festival. The documentary is being aired on PBS and the History Channel in the U.S and on History International.

### 3. *Courses taught in the Honors College at USF*

- (a) Applied Ethics
- (b) A History of Genocide

### 4. *Invited Speaker*

- (a) Member and invited speaker: Oxford Round Table, Oxford, U.K.
- (b) *Man’s Inhumanity to Man*, Eastern Connecticut State University, March 2009

### 5. *Newspaper Publications*

- (i) *Genocide too Long Denied*, Op-ed column, St. Petersburg Times, April 24, 2010.
- (ii) *America Doesn’t Need a Maverick*, Guest Column, The Oracle, Oct. 7, 2008.
- (iii) *The Cries of the Innocents*, Guest Column, The Tampa Tribune, April 28, 2007.
- (iv) *Flags Offer a reminder of How Fragile Our Freedom Really Is,*” Opinion page, St. Petersburg Times, May 14, 2005.
- (v) *Liberation of Auschwitz: Reminder of Present Day Genocides,*” Guest Column, The Oracle, Jan. 27, 2005.
- (vi) *A Time for Peace*, Commentary, The Tampa Tribune, Dec. 19, 2004.

- (vii) *Our Government Failed Our Trust*, The Oracle, March 16, 2004.
- (viii) *The USF-Wolfowitz Connection*, Guest Column, The Oracle, Feb. 10, 2004.
- (ix) *Education Needs Better Funding, not Slick TV Adds*, St. Petersburg Times, June 1, 2002.

## **WORK IN PROGRESS**

### 1. Undergraduate Textbooks

- (a) (With Charles Odion) (i) *Precalculus* – completed to appear in 2012;  
(ii) *College Algebra*; (iii) *Trigonometry with Application* – Brooks/Cole publishers
- (b) *Linear Algebra: Basic Concepts With Applications*, with Thomas Bieske.

### 2. Mentor

*“Genocide: Not Just Our Grandparents Problem,”* Megan Collins, thesis, Honors College, 2011 – 2012.