

CURRICULUM VITA

Manoug Manougian, Ph.D.

Department of Mathematics and Statistics
University of South Florida, Tampa

Education

Ph.D. (1968) University of Texas at Austin

M.A. (1964) University of Texas at Austin

B.A. (1960) University of Texas at Austin

Academic Positions

Mathematics, USF (1998 – 2019)

Mathematics, USF (1994 – 1998)

University of Texas at Austin (1968 – 1994)

University of Texas at Austin (1964 – 1968)

University of Texas at Austin (1960 – 1964)

Grants

NASA –FSGC Rocket Competition \$7,970 (2015 – 2019)

USF Library, Program Coordinator, \$25,000 (2015)

American Mathematical Society, \$7,500 (2015 – 16)

Jacarlene Foundation, Director, PI \$54,500, (2012 – 2019)

Citi Women in Technology Group, Director, P.I. \$11,950 (2016 – 2019)

The Jagged Peak, \$7,500, Director, PI (2012 – 2015)

Steve Voss, \$2,500 promoting STEM Education, (2014)

Honors College, USF, \$10,000, Director, P.I. (2003 - 2004)

The Philibosian Foundation, Director, PI, Co-Director, Co-PI, \$971,600 (1979 – 1995)

National Science Foundation, Director, PI, \$48,895 (1971, 1977)

Author of undergraduate mathematics textbooks (a sample)

Precalculus: Algebra and Trigonometry, 3rd Edition (with Charles Odion), Kendall/Hunt (2015)

Introductory Calculus with Applications, 2nd Edition, (with J.S.Ratti), Houghton/Mifflin Co. (1977)

Ordinary Differential Equations, (with R. A. Northcutt), Merrill Publishing Co. 1973

Basic Concepts of Linear Algebra, (with S. Isaak), Norton Publishing Co. 1976

Mentoring and theses director (A sample)

Director, Honors Theses (2016):

"Development of an Autonomous Sample Return System" By Nicholas Conde

"Design of an Amateur Rocket" By Carey Whitehair

"Analysis of the S.I.R. Model Utilizing the H1N1 Swine Influenza Virus" By Timothy Freeman

Doctoral Thesis, committee member: *"Nearest Neighbor Foreign Exchange Rate Forecasting With Mahalanobis Distance,"* by Vindya K. Pathirana (2015)

Honors Thesis, committee member: *"Additive Manufacturing in a Microgravity Environment,"* by Christine E. Lane (2015)

Doctoral Dissertation committee member, *"Bi-integrable and Tri-integrable Coupling and Their Hamiltonian structures"*

Society of Aeronautics and Rocketry (S.O.A.R.) – Faculty Advisor/Mentor

S.O.A.R. is a USF student club devoted to space exploration. The focus of the society is to promote holistic education and production of new scientific knowledge through innovative research. S.O.A.R. provides a platform for young scientists to develop skills necessary to make an effective problem-solving team by fostering the development of individual accountability, positive interdependence, and social skills. All aspects of S.O.A.R. are governed entirely by students under the guidance of the Faculty Advisor. Over 300 students are members of the Society and have won several NASA sponsored competition awards.

On Social issues

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 and the History Channel. ~~1811403~~

Invited Speaker/Participant

Delegate to the 2016 *Global Aerospace Summit*, Abu Dhabi (UAE) March 2016

Invited Speaker, College of Arts and Sciences, USF - *Trail Blazers*

"From Flying Carpets to STEM Education: How My Students and I crossed the Karman Line. (Nov. 2015)

Invited Speaker, Pleasantville Film Festival, N.Y, (Sept., 2014)

Keynote Speaker, Florida Gulf Coast University, "On STEM education," (Jan., 2014)

Invited Speaker, The Cambridge Film Festival, Cambridge, U.K. (Sept., 2013)

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Invited Speaker, Florida Film Festival, (113

Invited Speaker