

HAROLD A. LEWIS, Ph. D.
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EDUCATION

- Ph.D. Applied Mathematics, University of Miami, 1993
- M.S. Applied Mathematics, University of Virginia, 1985
- B.S. Mathematics, Florida International University, 1983

EXPERIENCE

2013-Present. Professor of Mathematics and Statistics, Valencia College. Began tenure-track in 2014. Teach variety of mathematical courses, hold office hours, prepare coursework, activities and grade. Participate in committees, both college-wide, campus-wide and departmental, and participate in faculty development.

2000 - 2012. Principal Statistician at Institute for Simulation and Training (IST). Activities involved planning and developing new research projects. Areas of research with UF faculty included the application of advanced computer architectures to problems of training simulator design and application of applied mathematics to simulation. Courtesy appointment in the Mathematics Department, UF.

1993 - 2000. Oceanographer at Ocean Acoustics Division of Atlantic Oceanographic and Meteorological Laboratory, U.S. Department of Commerce. Engaged in research relating to Doppler current sensing and echo-sounding techniques using advanced signal processing techniques. Research entailed grant writing and supervision of technical personnel in both laboratory and field operations.

1987 - 1993. Mathematician at Marine Geology and Geophysics Division of Atlantic Oceanographic and Meteorological Laboratory, U.S. Department of Commerce. Responsible for data analysis software and developed mathematical and numerical models of sediment transport.

1991 - 1993. Teaching Assistant- University of Miami
Taught independent sections of College Algebra and Calculus I.

1981 - 1983. Engineer at WFUN Radio, Miami, Florida.
Responsible for development of novel control circuits for AM radio transmitter.

1978 - 1979. Personnel Management Specialist, U.S. Army. Honorable Discharge.

1977 - 1978. Research Assistant, Harvard Radio Astronomy Station, Ft. Davis, TX.

COURSES TAUGHT

MAC2311	Calculus I with Analytical Geometry
STA2023H	Honors Statistical Methods I
STA2023	Statistical Methods I
MAC1105	College Algebra
MAT1033	Intermediate Algebra
COP 3200	Computer Programming (at UF)
MGF 1106	Finite Mathematics (at UF)

SERVICE

Mathematics Professor Search Committee: 2014
 PREP Math Committee, Osceola campus: 2014
 UF Patent Committee: 2009 - 2013
 IST Director Search Committee: 2009
 UF Research Council: 2002-3

PUBLICATIONS

2011 **Lewis, H.A.**, and D. Kaup, "Quantum Algorithms for Modeling and Simulation: A Grand Challenge for Modeling and Simulation", Proceedings First International Conference on Grand Challenges for Modeling and Simulation.

2010 **Lewis, H.A.** and D. K. McBride, "Categorical Modeling of Information Assurance." DARPA Workshop on Characterizing the Macroscopic Phenomena of Complex Information System 29, Arlington, VA, USA.

2008 **Lewis, H.A.**, "A Comparison of Linear Logic with Wave Logic." Fifth International Symposium on Artificial Intelligence and Mathematics.