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Education

1966
S.B.
Massachusetts Institute of Technology
Applied Mathematics

1981
Ph.D.
UT Southwestern Medical Center at Dallas
Mathematical Sciences

Employment Experience

1979-1982
Research Associate, Center for the Analysis of Health Practices, Harvard School of Public Health, Boston, MA

1982-1985
Assistant Professor (Mathematics), Fitchburg State College, Fitchburg, MA

1985-1991
Coordinator of the Mathematics Placement Program, Framingham State College, Framingham, MA

1985-1989
Assistant Professor (Mathematics), Framingham State College, Framingham, Massachusetts

1989-1993
Associate Professor (Mathematics), Framingham State College, Framingham, MA

1991-1992
Science Scholar, Mary Ingraham Bunting Institute, Radcliffe College, Cambridge, MA

1993-
Professor (Mathematics), Framingham State University, Framingham, Massachusetts

1994-1998
2007-2010
Chairperson of the Department of Mathematics, Framingham State University, Framingham, MA

1999-2000
AAAS-Risk Policy Fellow, United States Department of Agriculture, Washington, DC

2000-2003
Visiting Scientist, Department of Occupational Health, Harvard School of Public Health, Boston, MA

2002-2003
Mathematical Statistician, Food and Drug Administration, Rockville, MD

2003 – 2009
Consultant for the Food and Drug Administration, Rockville, MD

2009 2011 summers
ORISE Fellow at the Food and Drug Administration, Rockville, MD

2010-
Intel Math Instructor in Massachusetts, Connecticut and Oregon

Awards

Distinguished Service Award, Fitchburg State University, 1984
Bunting Science Scholar Award, 1991
Research in Pairs, Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach, Germany, 6/21 – 7/4, 1998
American Association for the Advance of Science Fellowship, 1999
ORISE Fellow, summers 2009 – 2011

Professional Societies

Mathematical Association of America
Sigma Xi

Publications

Sandberg S, Anderson DH, Eisenfeld J. On Identification of Compartmental Systems, in *Applied Nonlinear Analysis*, V. Lakshmikantham (ed.), Academic Press, New York, 1979.

Sherman H, Sandberg S, Fineberg HV. Exponential Increase in Age-Specific Prevalence of Ventricular Dysrhythmia Among Males. *J. of Chronic Disease* **35**, 743-750 (1982).

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Donnelly C, Leisenring W, Sandberg S, Kanki P, Awerbuch T. Comparison of Transmission Rates of HIV-1 and HIV-2 in a Cohort of Prostitutes in Senegal, Abstracts of the 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 1-5, 1991, p103.

Awerbuch T, Sandberg S, Spielman A. Critical Abundance of Hosts Prepetuating the Tick that Transmits the Agent of Lyme Disease, Abstracts of the 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 1-5, 1991, p205.

Leisenring W, Donnelly C, Sandberg S, Kanki P, Awerbuch T. Decreased Infectivity of HIV2 Compared to HIV1: A Mathematical Model, Abstracts of the VIII International Conference on AIDS/III STD World Conference, July 19-24, 1992.

Kanki P, Leisenring W, Donnelly C, Sandberg S, Awerbuch T. Decreased Infectivity of HIV2 Compared to HIV1: A Mathematical Model, Annual Meeting sponsored by the Laboratory of Tumor Cell Biology, NIH, August 6-15, 1992.

Sandberg S, Awerbuch T, Spielman A. A Comprehensive Matrix Model Representing the Life Cycle of the Tick that Transmits the Agent of Lyme Disease, *Journal of Theoretical Biology* **157**, 203-220 (1992).

Kiszewski AE, Awerbuch TE, Sandberg S, Spielman A. Sexually Regulated Fertility of Ticks - A Conceptual Model. *Proceedings of the First International Conference on Tick-Borne Pathogens at the Host-Vector Interface* 328-334(1992).

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Sandberg S, Awerbuch T. A Modification of Leslie Matrices for the Life Cycle of the Lyme Disease Tick, *Math Modeling and Sci Computing* **2**, 667-672 (1993).

Awerbuch T., Sandberg S. Models for Sexual and Intravenous Transmission of AIDS, *Math Modeling and Sci Computing* **2**, 642-649 (1993).

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Rothberg M, Sandberg S, and Awerbuch TE. Educational software for simulating risk of HIV infection. *Journal of Science Education and Technology*, **3**, 65-70 (1994).

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Sandberg S, Awerbuch T E and Gonin R. Simplicity vs. Complexity in Deterministic Models: An Application to AIDS Data. *Journal of Biological Systems* **4**, 61 - 81 (1996)

Coleman C, Sandberg S, Anderson SA. Impact of Microbial Ecology of Meat and Poultry Products on Predictions from Exposure Assessment Scenarios for Refrigerated Storage. *Risk Analysis* **23**, 215-228 (2003)

Rida W, Sandberg S. Modeling the Population Level Effects of an HIV-1 Vaccine in an Era of Highly Active Antiretroviral Therapy, *Bulletin of Mathematical Biology* **71**, 648-680 (2009).

Awerbuch-Friedlander T, Gonzalez C Hernandez D Levins R, Sandberg S, Sibata JR, Tapia J L Dynamics of the Scale and Its Natural Enemies in a Citrus Grove at Ceiba, Cuba. *Canadian Journal of Agricultural Sciences* (2013)