Name: **John G. Alford**
Title: **Assistant Professor**
Department: **Mathematics and Statistics**
College: **Arts and Sciences**

Degrees Earned

Ph.D., Mathematics, University of Houston, Houston, Texas
M.S., Applied Mathematics, University of Houston
B.S., Physics, University of California, Los Angeles, California

Peer-Review Publications

- John G. Alford, Curtis Balusek, Kristen Bowers, and Casey Hartnett, *A Mathematical Model of Biocontrol of Invasive Aquatic Weeds*, Involve, submitted for review 2011.

- John G. Alford, *Reaction-Diffusion Models of Threshold and Waveblock in Heterogeneous Excitable Media*, Applied Mathematics and Computation, submitted for review 2011**.**

- John G. Alford and William I. Lutterschmidt, Modeling Energetic and Theoretical Costs of Thermoregulatory Strategy, The Journal of Biological Dynamics, accepted for publication in 2012.

- John G. Alford, *Synchrony and Spontaneous Order*, Encyclopedia of Mathematics and Society (a reference work on the role of mathematics in everyday life), Salem Press, 2011.

- John G. Alford, *Models of Unidirectional Propagation in Heterogeneous Excitable Media*, Applied Mathematics and Computation, Vol. 216, No. 4, 2010

- John G. Alford, *Bifurcation Structure of Rotating Wave Solutions of the FitzHugh-Nagumo Equations*, Communications in Nonlinear Science and Numerical Simulations, Vol. 14, No. 8, 2009

- John G. Alford, Giles Auchmuty, *Rotating Wave Solutions of the FitzHugh-Nagumo Equations*, Journal of Math Biology, Vol. 53, No. 5, Springer Berlin/Heidelberg 2006**.**

- John Alford, Nick Cogan, Charles Miller, Seth Patinkin, Bradford E. Peercy, Noah Rosenburg. *Boundary Element Analysis of Intracardiac Electrogram Sensing*, IMA Preprint Series #1589, August 1998.

Work or Professional Experiences

- Assistant Professor of Mathematics, Sam Houston State University, 2006-present

- VIGRE (Vertical Integration of Research and Education) Postdoctoral Fellow}, Tulane University, 2003-2006

- Community College Mathematics Instructor, San Jacinto Community College, 1994-2003

- High School Mathematics Teacher, Alvin Senior High School, 1993-1994

- Teaching Fellow, University of Houston, 1992-1993

- Software Systems Engineer, CAE Link Flight Simulation, 1988-1990 and Eagle Technical Services, 1990-1991