CONTACT	Department of Mathematics	(352) 294-2388
INFORMATION	University of Florida	joann5@ufl.edu
	358 Little Hall, Gainesville, FL 32611	people.clas.ufl.edu/joann5
EDUCATION	 Ph.D. in Mathematics, University of Florida, August 2013 Advisor: James E. Keesling Dissertation: A Simulation Model for the Spread of Citrus Greening via Transmission Between Flush Shoots and Diaphorina citri M.S. in Mathematics, University of Florida, May 2009 	
	B.S. in Mathematics , University of Florida, <i>May 2006</i> Cum Laude, 4.0 GPA, Minor: Pathways to Teaching	
RESEARCH INTERESTS	Mathematical modeling, specifically in ecology and epidemiology; operations research	
ACADEMIC EXPERIENCE	 Postdoctoral Associate Mathematics Department, University of Florida June 2014 - June 2016, funded by CRDF Contract 00094417 August 2013 - May 2014, funded primarily by Emerging Pathogens Institute and Emergency Department at Shands Hospital 	
	Graduate Teaching Assistant , Fall 2006 - Summer 2013 Mathematics Department, University of Florida	
	Graduate Research Assistant Mathematics Department, University of Florida Summer 2012, funded by Emergency Departm Spring 2011, funded by NSF Grant DMS-08180 Spring 2008 - Fall 2008, funded by Departmen	nent at Shands Hospital at UF 050, Mathematics Department, UF nt of Surgery at UF
TEACHING EXPERIENCE	 Mathematical Methods in Natural & Life S MATLAB discussion leader, University of Florida Spring 2009, supervisor: Dr. Sergei Pilyugin overall student evaluation rating: 4.33/5 	ciences,
	 Calculus III, instructor, University of Florida Fall 2010, overall student evaluation rating: 4.84/5 	
	• Spring 2012, overall student evaluation ratin	ag: 4.4/5
	• Fall 2012, overall student evaluation rating:	4.38/5

Calculus III, discussion leader, University of Florida

- Fall 2009, supervisor: Dr. Sergei Shabanov overall student evaluation ratings: 4.68/5, 4.62/5, 4.23/5
- Spring 2010
 - supervisor: Dr. Jan Gregus overall student evaluation rating: 4.71/5
 - supervisor: Dr. Philip Boyland overall student evaluation rating: 4.65/5
- Fall 2011, supervisor: Dr. Jan Gregus overall student evaluation ratings: 4.93/5, 4.56/5, 4.5/5

Calculus II, discussion leader, University of Florida

• Spring 2013, supervisor: Ms. Kwai-Lee Chui overall student evaluation ratings: 4.75/5

Calculus I, discussion leader, University of Florida

 Fall 2007, supervisor: Dr. Jason Kozinski overall student evaluation ratings: 4.71/5, 4.61/5, 4.5/5

Survey of Calculus I, instructor, University of Florida

- Summer 2007, overall student evaluation rating: 3.83/5
- Summer 2010, overall student evaluation rating: 4.33/5
- Summer 2011, overall student evaluation rating: 4.8/5

Survey of Calculus I, discussion leader, University of Florida

• Spring 2007, supervisor: Mrs. Ronnie Khuri overall student evaluation ratings: 4.25/5, 4/5

Precalculus with Trigonometry, discussion leader, University of Florida

 Fall 2006, supervisor: Dr. Larissa Williamson overall student evaluation ratings: 4.57/5, 3.94/5, 3.89/5

Trigonometry, *instructor*, University of Florida

• Spring 2009, overall student evaluation rating: 4.31/5

Mathematics for Liberal Arts Majors II, instructor, University of Florida

• Summer 2013, overall student evaluation rating: 4.5/5

Cryptology instructor, John's Hopkins University Center for Talented YouthSummer 2007

 RECENT
 University of Florida

 COLLABORATORS
 Burton H. Singer, Ariena H.C. van Bruggen (Emerging Pathogens Institute)

 Joseph A. Tyndall (Emergency Department at Shands)

 Verena-Ulrike Lietze, Drion G. Boucias (Entomology and Nematology)

 Jack Mecholsky, Paul A. Robinson (Materials Science and Engineering)

 James Keesling, Scott A. McKinley, Ross Ptacek, Celeste Vallejo (Mathematics)

 William O. Dawson (Citrus Research and Education Center, Plant Pathology)

Florida Department of Agriculture and Consumer Services

Susan E. Halbert (Division of Plant Industry)

United States Department of Agriculture Tim Gottwald (Research Leader and Plant Pathologist) Chris Geden (Research Entomologist)

Texas A&M University - Kingsville Citrus Center Mamoudou Sétamou (Agronomy & Resource Sciences)

PUBLICATIONS Lee J, Halbert SE, Dawson WO, Robertson C, Keesling JE, Singer BH (2015) Asymptomatic spread of huanglongbing and implications for disease control. *Proc. National Acad. Sciences* 112(24):7605-7610

Hurwitz JE, Lee J, Lopiano KK, McKinley SA, Keesling JE, Tyndall JA (2014) A flexible simulation platform to quantify and manage emergency department crowding. *BMC Medical Informatics and Decision Making* Vol 15 No 50.

Lietze VU, Keesling JE, Lee J, Vallejo CR, Geden CJ, and Boucias DG (2013) *Muscavirus* (MdSGHV) disease dynamics in house fly populations - How is this virus transmitted and has it potential as a biological control agent? *J. Invertebrate Pathol* 112:S40-S43.

Vallejo CR, Lee J, Keesling JE, Geden CJ, Lietz VU, Boucias DG (2013) A mathematical model that describes modes of MdSGHV transmission within house fly populations. *Insects* 4(4):683-693.

PRESENTATIONS "Modeling the impact of RNAi treatments on the spread of HLB among asymptomatic trees"

International Research Conference on Huanglongbing, February 2015 UF IFAS, USDA, Orlando, Florida

"Asymptomatic Spread of Huanglongbing and Implications for Disease Control" (poster) EPI Research Day, February 2014 Emerging Pathogens Institute, University of Florida, Gainesville, FL

"Asymptomatic Spread of Huanglongbing and Implications for Disease Control" Biomathematics Seminar, *February 2014* Mathematics Department, University of Florida, Gainesville, FL

"A Dynamical Systems Model for Citrus Greening" New Trends in Topology Session at the 28^{th} Summer Conference on Topology and its Applications, July 2013 Nipissing University, North Bay, Ontario

"A Model for the Spread of Citrus Greening Attributed to the Vector Diaphorina citri" (poster) Third Annual Citrus Health Research Forum, 2012 USDA-APHIS, Fort Collins, Colorado

"Introduction to Citrus Greening and the Dynamics of the Disease Spread in Florida" Graduate Mathematics Association Seminar, 2012 Mathematics Department, University of Florida, Gainesville, FL

"Surgical Thread: A Model and the Theory Behind the Motion" Surf Lab, $2010\,$

	Computer Science Department, University of Florida, Gainesville, FL	
WORKSHOPS	NIMBioS Working Group: vector movement and disease March 30-April 2, 2015 NIMBioS at the University of Tennessee, Knovyille	
	Vectored Plant Viruses, NIMBioS Investigative Workshop http://www.nimbios.org/workshops/WS_plantviruses March 17-19, 2014 NIMBioS at the University of Tennessee, Knoxville	
AWARDS & RECOGNITIONS	Eleanor Ewing Ehrlich Award Receipient, Spring 2013 Recognized as outstanding female graduate student in Mathematics Department	
	University of Florida Graduate Student Teaching Award, Spring 2012	
	University of Florida Department of Mathematics Graduate Student Teaching Award, Spring 2012	
	University of Florida Department of Mathematics Certificate of Merit, Spring 2009	
	Grinter Fellowship, University of Florida, 2006-2009	
	UF Office of Research grant for travel to Third Annual Citrus Health Research Forum, USDA-APHIS, Fort Collins, Colorado, <i>Fall 2012</i>	
	UF Center for Applied Mathematics grant for travel to Third Annual Citrus Health Research Forum, USDA-APHIS, Fort Collins, Colorado, <i>Fall 2012</i>	
	UF Center for Applied Mathematics grant for travel to Conference on Computational Science and Engineering, Society for Industrial and Applied Mathematics, Reno, Nevada, Spring 2011	
MEMBERSHIPS	• National Postdoctoral Association	
	• American Mathematical Society	
	• Mathematical Association of America	
	• Society for Industrial and Applied Mathematics, UF SIAM Chapter Vice President, August 2010 - August 2011	
	• Graduate Mathematics Association	
COMPUTER SKILLS	MATLAB, R, Mathematica, ${\rm I\!A} T_{\rm E} X,$ Excel, Powerpoint	