Curriculum Vitae

Rachel Levanger

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Professional Preparation

University of North Florida	Mathematics & Art History	B.A. 2012
Rutgers State University of New Jersey	Mathematics	Ph.D. (2018)

Appointments

EAPSI Fellow, Host: Takashi Ishihara, Nagoya University, Japan	Summer 2016
Graduate Assistant, Rutgers University, Advisor: Konstantin Mischaikow	Fall 2015 – Spring 2016
RYSP, Rutgers University, Instructor for Graph Algorithms	Summer 2015
DIMACS REU, Graduate Student Mentor	Summer 2015
Rutgers University, TA for Calculus II for Math/Science Majors	Fall 2014
DIMACS REU, Graduate Student Coordinator	Summer 2014
Fidelity National Financial, Statistical Data Analyst Intern	Summer 2012
University of North Florida, Grader for Calculus II and Probability	Spring 2012
University of North Florida, Grader for Advanced Calculus	Fall 2011
Fidelity National Financial, Business Systems Analyst	2005 - 2011
Wells Fargo Services Company, Business Systems Analyst	2001 - 2005

Publications

S. Harker, M. Kramar, R. Levanger, K. Mischaikow, "A Comparison Framework for Interleaved Persistence Modules," in preparation.

M. Kramar, R. Levanger, J. Tithof, B. Suri, M. Xu, M. Paul, M.Schatz, K. Mischaikow, "Analysis of Kolmogorov Flow and Rayleigh-Bénard Convection using Persistent Homology," accepted, Physica D: Nonlinear Phenomena, 2016.

R. Dumitru, R. Levanger, and B. Visinescu, "On singular value inequalities for matrix means," Linear Algebra and its Applications, 439(8), Oct 15, 2405-2410 (2013).

Awards & Fellowships

Recipient of the Janice Pattwell Annual Mathematics Fellowship Rutgers University, Department of Mathematics	2013 - 2014
University Diversity Fellowship Rutgers University Graduate School of Arts and Sciences	2013 - 2015
Outstanding Undergraduate Student in Mathematics University of North Florida Mathematics & Statistics Department	Apr 2012
Student Speaker Award Pi Mu Epsilon National Meeting at MathFest 2011, Lexington, KY.	Aug 2011
Undergraduate Scholarships for Analysis & Probability University of North Florida Mathematics & Statistics Department	May 2011

UNF College of Arts & Sciences, Willard O. Ash Award Award recognizing a senior who embodies Dean Ash's philosophy of a broad-based education in the liberal arts and sciences.

Nov 2010

Selected Talks

Aug. 1-5, 2016
May 25-27, 2016
Apr. 11, 2016
Mar. 23, 2016
Mar. 10, 2016
Oct. 23, 2015
Aug. 17-28, 2015
Mar. 29, 2013
Feb. 18, 2012
Aug. 4, 2011

Service

Co-organizer for New York Applied Topology seminar,	Fall 2015 – Spring 2016
Columbia Medical	
Co-organizer for AMS Special Session on Topological Data Analysis:	Nov. 2015
Computations, Statistics and Applications, Rutgers University	
Directed Reading Program, Rutgers University	Fall 2014 – Spring 2016
Pi Mu Epsilon Florida Eta Chapter, <i>President</i>	2011 - 2012
Pi Mu Epsilon Florida Eta Chapter, Vice President	2011

Computer Experience

Experience with MATLAB, Mathematica, Maple, Microsoft Office Suite (Excel, Word, Access, Visio), Microsoft SQL Server, Microsoft Visual Studio, Processing, and Eclipse IDE for Java Developers.

Programming experience in Python, shell scripting, R, LaTeX, SQL, C#, C++, VB, and JAVA. Data modeling experience with relational databases, domain models (UML), and XML.