

Benjamin P. Russo

Contact Information

Email: russobp@farmingdale.edu Webpage: benrussomath.com Department of Mathematics Whitman Hall 180-I Farmingdale State College SUNY

Education/Employment

Assistant Professor

September 2018 - Present

Farmingdale State College SUNY

Visiting Assistant Professor

August 2016 - August 2018

University of Connecticut

Ph.D in Mathematics

May 2016

 $University\ of\ Florida,\ Advisor:\ Scott\ McCullough$

M.S. in Mathematics

May 2012

University of Florida

B.S. in Mathematics and Physics

May 2010

University of Florida

Publications

The 3-isometric Lifting Theorem

Integral Equations and Operator Theory, Volume 84, no. 1, 69–87, with Scott McCullough

Lifting Commuting 3-Isometric Tuples

Operators and Matrices, Volume 11, no. 2, 397–433.

The Mittag Leffler Reproducing Kernel Hilbert Spaces of Entire and Analytic Functions

Journal of Mathematical Analysis and Applications, Volume 463, Issue 2, 576–592, with Joel Rosenfeld and Warren Dixon

Accepted

Occupation Kernels and Densely Defined Liouville Operators for System Identification

2019 IEEE Conference on Decision and Control Proceedings, with Joel Rosenfeld, Rushikesh Kamalapurkar, and Taylor T Johnson

In Submisssion (* indicates an arXiv link)

Motion Tomography via Occupation Kernels

with Rushikesh Kamalapurkar, Dongsik Chang, and Joel Rosenfeld

The Occupation Kernel Method for Nonlinear System Identification*

with Joel Rosenfeld, Rushikesh Kamalapurkar, and Taylor T Johnson

Non-commutative disintegrations: existence and uniqueness in finite dimensions*

with Arthur Parzygnat

A non-commutative Bayes' theorem*

with Arthur Parzygnat

Invited Talks

AMS Special Session on Operators, Function Spaces, and Models (January 2016)

Sub-Jordan Operator Tuples

IWOTA Special Session on Multivariable Operator Theory (July 2016)

Sub-Jordan Operator Tuples

Graduate Mathematics Association, University of Florida (February 2016)

Dilations and Completely Positive Maps

SIGMA Seminar, University of Connecticut (October 2016)

Dilations and Completely Positive Maps

AMS Sectional Meeting Special Session, Indiana University (April 2017)

A Generalization of the Fock Space

AMS Special Session on Operators on Function Spaces, JMM (January 2018)

A Generalization of the Fock Space

AMS Special Session, University of Delaware (September 2018)

C*-algebras and the Category of Stochastic Maps

WINRS Special Session, University of Virginia (September 2018)

Fractional Derivatives and the Segal Bargmann Space

AMS Special Session on Multivariable Operator Theory, JMM (January 2019)

C*-algebras and the Category of Stochastic Maps

IWOTA Special Session on Free-Analysis and Free Probability (July 2019)

C*-algebras and the Category of Stochastic Maps

AMS Special Session on Recent Progress in Operator Theory (November 2019)

Occupation Kernels and Liouville Operators

American Control Conference Workshop (June 2020)

Motion Tomography via Occupation Kernels

Talks

Graduate Mathematics Association, University of Florida (September 2014)

My Love/Hate Relationship with the Cantor Set

Southeastern Analysis Meeting, University of Georgia (March 2015)

The Equivalence of Lifting and Factorization for 3-Isometric Tuples

Great Plains Operator Theory Symposium, Purdue University (May 2016)

The Equivalence of Lifting and Factorization for 3-Isometric Tuples

Southeastern Analysis Meeting, University of South Florida (March 2016)

Multivariate Lifting Theorems with an Application

Southeastern Analysis Meeting, University of Tennessee (March 2017)

A Generalization of the Fock Space

Hilbert Function Spaces, Gargnano, Italy (May 2017)

A Generalization of the Fock Space

UConn Math Club, University of Connecticut (October 2017)

The Game of Hex

Northeastern Analysis Meeting, University of Albany (October 2017)

A Generalization of the Fock Space

Southeastern Analysis Meeting, University of Alabama (March 2019)

C*-algebras and the Category of Stochastic Maps

Conferences Attended

Southeastern Analysis Meeting, Virginia Tech (March 2013)

Southeastern Analysis Meeting, Clemson University (March 2014)

Southeastern Analysis Meeting, University of Georgia (March 2015)

Great Plains Operator Theory Seminar, Purdue University (May 2015)

Southeastern Analysis Meeting, University of South Florida (March 2016)

IWOTA, Washington University in St. Louis (July 2016)

Southeastern Analysis Meeting, University of Tennessee (March 2017)

AMS Sectional Meeting, University of Indiana (April 2017)

Hilbert Function Spaces, Gargnano, Italy (May 2017)

Northeastern Analysis Meeting, University of Albany, (October 2017)

Joint Mathematics Meeting, (January 2018)

AMS Sectional Meeting, University of Delaware (September 2018)

WINRS, University of Virginia (September 2018)

Joint Mathematics Meeting, (January 2019)

Southeastern Analysis Meeting, University of Alabama (March 2019)

AMS Sectional University of Florida (November 2019)

Referee Activity

Operators and Matrices

Annales de l'institut Fourier

Undergraduate Research Mentoring

Periodic Cycles on the Riemann Sphere under Möbius Transformations

with Anthony Ercolano

Teaching Experience

Courses taught at Farmingdale State College SUNY

MTH 107 - Introduction to Mathematical Ideas

MTH 116 - College Algebra

MTH 129 - Pre-Calculus

MTH 130 - Calculus I with Applications

MTH 150 - Calculus I

MTH 151 - Calculus II

MTH 322 - Advanced Mathematical Analysis

MTH 354 - Principles of Real Analysis

MTH 390 - Methods in Operations Research

Courses taught at University of Connecticut

MATH 1070 - Mathematics for Business and Economics

MATH 1131Q - Calculus I

MATH 2210Q - Applied Linear Algebra

MATH 2710 - Transition to Advanced Mathematics

 MATH 3210 - Abstract Linear Algebra

MATH 3150 - Analysis I

Courses taught at University of Florida

Instructor

MGF 1106 - Mathematics for Liberal Arts Majors

 MAC 2312 - Analytic Geometry and Calculus II MAP 2302 - Elementary Differential Equations

 $AIM\ Instructor$

 MAC 1105 - Basic College Algebra

 $On line\ Instructor$

 MAC 1147 - Pre-Calculus and Trigonometry

Lecturer

 $\operatorname{MAC2313}$ - Analytic Geometry and Calculus III

 $Discussion\ Leader$

MAC 1140 - Pre-calculus Algebra MAC 1105 - Basic College Algebra

 MGF 1106 - Mathematics for Liberal Arts Majors

MAC 2311 - Analytic Geometry and Calculus I MAC 2312 - Analytic Geometry and Calculus II

MAC 2313 - Analytic Geometry and Calculus III

Course Development

Online Course Development for MAC 2313 at UF	
Course Development for MTH 129 at Farmingdale	

Spring 2015 - Summer 2015 Spring 2018 - present

Department Service

Graduate Student Mentor	Spring 2016
Graduate Mathematics Association Webmaster	Spring 2013 - Fall 2014
Graduate Analysis Seminar Organizer	Fall 2015
Teaching Help Desk	Fall 2015
Hiring Committee	Fall 2018
Hiring Committee	Fall 2019
Head of the Masters Program Development Committee	Spring 2018 - present
Seminar Organizer	present
Undergraduate Seminar Organizer	present

Grants, Awards and Recognition

College of Liberal Arts and Sciences Travel Grant	
Neil White Teaching Award	Spring 2016
Letter of Recognition for Excellence in Teaching	Spring 2017
Provost Professional Development Grant	Summer 2018