



Benjamin P. Russo

Contact Information

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Department of Mathematics
Whitman Hall 180-I
Farmingdale State College SUNY

Education/ Employment

Assistant Professor <i>Farmingdale State College SUNY</i>	September 2018 - Present
Visiting Assistant Professor <i>University of Connecticut</i>	August 2016 - August 2018
Ph.D in Mathematics <i>University of Florida, Advisor: Scott McCullough</i>	May 2016
M.S. in Mathematics <i>University of Florida</i>	May 2012
B.S. in Mathematics and Physics <i>University of Florida</i>	May 2010

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

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 Submission (* indicates an arXiv link)

Convergence Estimates for Motion Tomography via Occupation Kernels

with Rushikesh Kamalapurkar, Dongsik Chang, and Joel Rosenfeld

Motion Tomography via Occupation Kernels

with Rushikesh Kamalapurkar, Dongsik Chang, and Joel Rosenfeld

Theoretical Foundations for Higher Order Dynamic ModeDecompositions

with Joel Rosenfeld and Rushikesh Kamalapurkar.

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

Online Instructor

MAC 1147 - Pre-Calculus and Trigonometry

Lecturer

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
Graduate Mathematics Association Webmaster
Graduate Analysis Seminar Organizer
Teaching Help Desk
Hiring Committee
Hiring Committee
Head of the Masters Program Development Committee
Seminar Organizer
Undergraduate Seminar Organizer

Spring 2016
Spring 2013 - Fall 2014
Fall 2015
Fall 2015
Fall 2018
Fall 2019
Spring 2018 - present
present
present

Grants, Awards and Recognition

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

Spring 2016
Spring 2017
Summer 2018