

**TEXAS STATE VITA****I. Academic/Professional Background**

A. Name: Dr. William B. Grilliette, Ph.D. Title: Lecturer

**B. Educational Background**

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
PHD	2011	Univ of Nebraska - Lincoln	Mathematics, General	Formalizing Categorical and Algebraic Constructions in Operator Theory
MS	2005	University of Texas at Tyler	Mathematics, General	
BS	2002	LeTourneau University	Mathematics, General	

**C. University Experience**

<i>Position</i>	<i>University</i>	<i>Dates</i>
Lecturer, Mathematics	Texas State University. San Marcos, TX, United States	August 2014 - Present
Visiting Assistant Professor, Mathematics	University of Texas at Tyler. Tyler, TX, United States	August 2013 - July 2014
Adjunct Professor, Mathematics	Tyler Junior College. Tyler, TX, United States	August 2012 - July 2013
Visiting Assistant Professor, Mathematics	Alfred University. Alfred, NY, United States	August 2011 - July 2012

**II. TEACHING****B. Courses Taught:**

Texas State University:

MATH 1315 - COLL ALGEBRA

MATH 1319 - MATH BUS & ECO I

MATH 1329 - MATH BUS & ECO II

MATH 2321 - CALC LIFE SCI I

MATH 2471 - CALCULUS I

MATH 2472 - CALCULUS II

MATH 3373 - CALCULUS III

MATH 3377 - LINEAR ALGEBRA

Alfred University:

MATH 101 - Communicating with Numbers

MATH 107 - Calculus Concepts for the Social Sciences

MATH 253 - Calculus III

MATH 271 - Differential Equations

Tyler Junior College:

MATH 1314 - College Algebra

MATH 1316 - Plane Trigonometry

MATH 1324 - Mathematics for Business & Social Sciences I

MATH 2413 - Calculus I

MATH 2414 - Calculus II

University of Texas at Tyler:

MATH 1325 - Mathematics for Business and Economics II

MATH 2312 - Precalculus

MATH 2413 - Calculus I

MATH 2414 - Calculus II

MATH 3203 - Matrix Methods in Science and Engineering

### **III. SCHOLARLY/CREATIVE**

A. Works in Print (including works accepted, forthcoming, in press):

2. Articles:

a. Refereed Journal Articles:

Grilliette, W. (2015). Scaled-free objects II. *Annals of Functional Analysis*, 6, 216-261. <http://projecteuclid.org/euclid.afa/1429286044> doi: doi:10.15352/afa/06-3-18

Grilliette, W., Seacrest, D. E., Seacrest, T. (2013). On Blow-Ups and Injectivity of Quivers. *Electronic Journal of Combinatorics*, 20(2). <http://www.combinatorics.org/ojs/index.php/eljc/article/view/v20i2p40>

Grilliette, W. (2012). Injective Envelopes and Projective Covers of Quivers. *Electronic Journal of Combinatorics*, 19(2). <http://www.combinatorics.org/ojs/index.php/eljc/article/view/v19i2p39>

Grilliette, W. (2012). Scaled-free objects. *New York Journal of Mathematics*, 18, 275-289. <http://nyjm.albany.edu/j/2012/18-14.html>

Grilliette, W. (2012). Presentations and Tietze transformations of  $C^*$ -algebras. *New York Journal of Mathematics*, 18, 121-137. <http://nyjm.albany.edu/j/2012/18-8.html>

## B. Works Not in Print:

### 1. Papers Presented at Professional Meetings:

Grilliette, W. B., Joint Mathematics Meetings, "Examples of Scaled-free Operator Spaces," American Mathematical Society, Henry B. Gonzalez Convention Center and Grand Hyatt, San Antonio, TX, United States. (January 10, 2015).

Grilliette, W. B., Great Plains Operator Theory Symposium, "Examples of Scaled-Free Operator Spaces," Kansas State University, Manhattan, KS, United States. (May 31, 2014).

Grilliette, W. B. (Presenter), Seacrest, D. E. (Author), Seacrest, T. (Author), Joint Mathematics Meetings, "Blow-Ups and Injectivity of Quivers," American Mathematical Society, Baltimore Convention Center, Hilton Baltimore, and Baltimore Marriott Inner Harbor Hotel, Baltimore, MD, United States. (January 18, 2014).

Grilliette, W. B., Great Plains Operator Theory Symposium, "Scaled-Free Properties for Matrix-Normed Objects," University of California, Berkeley, Berkeley, CA, United States. (May 23, 2013).

Grilliette, W. B., Joint Mathematics Meetings, "Scaled-Free Properties for Matrix-Normed Objects," American Mathematical Society, San Diego Convention Center and San Diego Marriott Hotel and Marina, San Diego, CA, United States. (January 9, 2013).

Grilliette, W. B., 2011 Fall Central Section Meeting, "Combinatorial Algebra for Normed Structures," American Mathematical Society, University of Nebraska – Lincoln, Lincoln, NE, United States. (October 15, 2011).

Grilliette, W. B., Mathematical Association of America Nebraska/SE South Dakota Section Meeting, "A New View of Presentation Theory of  $C^*$ -algebras," University of Nebraska – Kearney, Kearney, NE, United States. (April 2011).

Grilliette, W. B., 27th South Eastern Analysis Meeting, "A New View of Presentation Theory of  $C^*$ -algebras," University of Florida, Gainesville, FL, United States. (March 2011).

Grilliette, W. B., Joint Mathematics Meetings, "A New View of Presentation Theory of  $C^*$ -algebras," American Mathematical Society, New Orleans Marriott & Sheraton New Orleans, New Orleans, LA, United States. (January 9, 2011).

Grilliette, W. B., Groupoidfest, "A New View of Presentation Theory of  $C^*$ -algebras," Creighton University, Omaha, NE, United States. (November 2010).

Grilliette, W. B., Great Plains Operator Theory Symposium, "A New View of Presentation Theory of  $C^*$ -algebras," University of Denver, Denver, CO, United States. (June 14, 2010).

## 2. Invited Talks, Lectures, and Presentations:

Grilliette, W. B., Topology Group, "Connecting Topology and Analysis -- The Gelfand Transform," Texas State University, San Marcos, TX, United States. (January 20, 2017).

Grilliette, W. B., Discrete Math Seminar, "A Functorial Link between Quivers and Hypergraphs," Texas State University, San Marcos, TX, United States. (September 23, 2016).

Grilliette, W. B., Analysis Seminar, "Scaled-free Matricial Banach Spaces," University of Houston, Houston, TX, United States. (February 27, 2015).

Grilliette, W. B., Discrete Math Seminar, "Injective Envelopes and Projective Covers of Quivers," Texas State University, San Marcos, TX, United States. (October 31, 2014).

Grilliette, W. B., Science Seminar, "Structural Propagation in Quivers," LeTourneau University, Longview, TX, United States. (November 8, 2012).

## 5. Other Works not in Print:

### b. Works "in progress":

#### Journal Articles:

Grilliette, W. B. Monoidal Products of Weighted Sets.

Grilliette, W. B. Projectivity and Injectivity for Hypergraphs.

Grilliette, W. B. A Functorial Link between Quivers and Hypergraphs.  
<https://arxiv.org/abs/1608.00058>

c. Other Works Not in Print:

Posters:

Grilliette, W. B., Mathematics Department Symposium and Recruitment Fair, "Generation of Matricial Banach Spaces," Texas State University, San Marcos, TX, United States. (October 16, 2015).

Grilliette, W. B., Mathematics Department Symposium and Recruitment Fair, "A New View of Presentation Theory for  $C^*$ -algebras," Texas State University, San Marcos, TX, United States. (October 17, 2014).

Grilliette, W. B., UNL Research Fair 2011, "A New View of Presentation Theory for  $C^*$ -algebras," University of Nebraska, Lincoln, NE, United States. (April 13, 2011).

#### **IV. SERVICE**

A. Institutional

3. Department/School:

Participant, 7th Annual Math Department Symposium and Recruitment Fair. (November 18, 2016).

D. Organization Memberships:

American Mathematical Society (AMS). (August 2011 - Present).