

## CURRICULUM VITAE, GEOFF DIESTEL, PHD.

### Degrees and Certificates

- (1) 2010-Actuarial Certification, Passed SOA Exam P1.
- (2) 2006-PhD in Mathematics, University of Missouri, Dr. Loukas Grafakos.  
*Bilinear Littlewood-Paley Theory and Square-Function Estimates*
- (3) 2002-MA in Mathematics, University of Missouri, Dr. Alexander Koldobsky.  
*Sobolev Spaces with Trivial Isometries*
- (4) BS in Mathematics, Kent State University, 2000.

### Professional Appointments

- (1) Assistant Professor, TAMUCT, 2011-Present.
- (2) Adjunct Instructor, Mount Hood Community College(OR), 2010-2011.
- (3) Adjunct Assistant Professor, University of Portland(OR), 2009-2010.
- (4) Visiting Assistant Professor, University of South Carolina, 2006-2009.
- (5) Graduate Assistant, University of Missouri, 2000-2006. Department Fellowship 2000-2002. Supported by NSF in 2004 and 2005.
- (6) Graduate Assistant, Kent State University 1999-2000.

### Honors and Awards

- (1) Graduate Research Award Winner-TAMUCT 2015.
- (2) Graduate Research Award Finalist-TAMUCT 2014.
- (3) Directed Masters Thesis of Aaron Kelly in Geometric Tomography. Joint work currently under peer-review.
  - (a) Winner of 2016 TAMUCT Best Thesis Award.
  - (b) Winner of 2016 Dean's Award for Best Thesis in the College of Arts and Sciences.

### Publications

- (1) G. Diestel, *An extension of Nikishin's factorization theorem*, To appear in Canadian Mathematical Bulletin.
- (2) G. Diestel, *Factoring Multi-sublinear Maps*, Journal of Functional Analysis, **266** (2014) 1928–1947.
- (3) G. Diestel, L. Grafakos, P. Honzík, E. Terwilleger, and Z. Si *Method of rotations for bilinear singular integrals*. Commun. in Math. Anal. 2011, Conference 3, 99–107.
- (4) G. Diestel, *Sobolev Spaces with only Trivial Isometries, II*, Positivity, Birkhäuser, 20.02.2009, vol. 13, no. 4, 621-630.
- (5) G. Diestel and Loukas Grafakos, *Maximal bilinear singular integral operators associated with dilations of planar sets*, J. Math. Anal. and Appl., Vol. 332 (2007), no. 2, 1482-1494.
- (6) G. Diestel and Loukas Grafakos, *Unboundedness of the ball bilinear multiplier operator*, Nagoya Math. J., Vol. 185 (2007), 1-9.
- (7) G. Diestel and Alexander Koldobsky, *Sobolev spaces with only trivial isometries*, Positivity 10, No.1 (2006) 135-144.
- (8) G. Diestel, *Some remarks on bilinear Littlewood-Paley theory*, J. of Math. Anal. and Appl., **307** (2005), 102-119.

### Articles Under Peer-Review

- (1) G. Diestel and A. Kelly, *Determining Convex Bodies from non-central sections*, Under informal peer-review prior to submission due to the high significance of the results.

### Articles in Final Preparations

- (1) G. Diestel, *Linearizing Multi-linear Maps*.
- (2) G. Diestel, *Semi-quasi-Banach spaces*.

### Talks and Invited Lectures

\* - Invited Lecture(see Section 19)

† - Lecture for general audience.

#### *Presentations While at TAMUCT, 2011-Present*

- (1) Colloquium Speaker in Analysis. Kent State University, October 3 2014\*.
- (2) Colloquium Speaker in Analysis. Western Washington University, May 15 2014\*.
- (3) Analysis Seminar Speaker. University of Oregon, April 8 2014\*.
- (4) AMS Sectional Meeting, University of Akron, Akron OH, Oct. 2012.
- (5) AMS Special Session, George Mason University, March 2012.(Presented by Co-author).
- (6) Speaker at Texas Bioscience Institute 2012\*†.
- (7) Lecture in Math. Education: Use and design of teaching manipulatives, TAMUCT, 2011\*†.
- (8) Analysis Seminar Speaker, University of Oregon, Eugene OR, 2011\*.

#### *Presentations Prior to TAMUCT, 2005-2010*

- (1) Seminar Speaker, University of Missouri, Nov. 9, 2010\*.
- (2) Tenth Prairie Analysis Seminar, University of Kansas, Lawrence KS, Oct. 30, 2010.
- (3) AMS Sect. Meeting 1063, UCLA, Los Angeles CA, Oct. 10, 2010.
- (4) Colloquium Speaker, University of Portland, February 2010\*†.
- (5) Colloquium Speaker, Western Washington University, November 2009\*.
- (6) Analysis Seminar Speaker, University of Oregon, October 2009\*.
- (7) Colloquium Speaker, Arkansas State University, April 2009.\*†
- (8) Colloquium Speaker, Westminster College, March 2009.\*†
- (9) Eighth Prairie Analysis Seminar, University of Kansas, Lawrence KS, Nov. 7-8, 2008.
- (10) Colloquium Speaker, Wright State University, March 2008.

- (11) AMS National Meeting in San Diego, Jan. 2008.
- (12) AMS Sect. Meeting 1032, University of New Mexico, Albuquerque NM, Oct. 13, 2007.
- (13) AMS Sect. Meeting 1030, DePaul University, Chicago Ill., Oct. 5, 2007.
- (14) AMS Sect. Meeting 1024, Davidson College, Davidson NC, Mar. 3, 2007\*.
- (15) AMS Sect. Meeting 1025, Miami University, Oxford OH, Mar. 16, 2007\*.
- (16) Sixth Prairie Analysis Seminar, University of Kansas, Lawrence KS, Oct. 13, 2006\*.
- (17) Banach Spaces and Their Applications in Analysis, University of Miami, Oxford OH, May 22, 2006\*.
- (18) The Fifth Conference on Function Spaces at SIUE, May 2006\*.
- (19) Ninth New Mexico Analysis Seminar, University of New Mexico, April 6, 2006\*.
- (20) Fourth Prairie Analysis Seminar, University of Kansas, Lawrence KS, Nov. 13, 2004\*.
- (21) Showme analysis meeting, University of Missouri, Columbia MO, June 5, 2004\*.
- (22) ICAA 2003, International conference in Abstract Analysis in Africa, Kruger National Park, South Africa, July-August 2003\*.
- (23) The Fourth Conference on Function Spaces at SIUE, Southern Illinois University, Edwardsville Ill., May 2002\*.

### **Service at TAMUCT**

- (1) Chair of University Curriculum Committee: F2015-Sp2016.
- (2) University Curriculum Committee. F2014-Sp2017.
- (3) Chair CAS Curriculum Committee: F2014-Sp2017.
- (4) CAS Curriculum Committee: F2013-Sp2017.
- (5) Graduate Council Sp2013-F2013. New term Starting F2016.
- (6) Curriculum and Assessment for Mathematics: F2012-Present.
- (7) Student Advisor for BS in Mathematics: F2012-Present.
- (8) Search Committee for founding Dean of CAS: F2013-Sp2014.
- (9) Search Committee for CAS administrative assistant Sp2014.
- (10) Chair of Committee on Committees: F2012-Sp2014.
- (11) Committee on Committees: Sp2012-Sp2014.
- (12) Faculty Senate: F2011-Sp2013.
- (13) Judge for Pathways Competition: Fall 2013.
- (14) Student mentor for Pathways Competition: Fall 2013.
- (15) Regular CAS representative at recruiting events held at CTC between Fall 2011 and Spring 2014.
- (16) Recruitment for Mathematics Students at Bio-Science Institute in Summer 2012.

### **Service to Profession**

- (1) Volunteer Reviewer for Math Reviews and various journals.
- (2) Referee for one book chapter and four articles.

### Courses Taught at TAMUCT

TAMUCT is an upper-level and graduate university. Most courses are on an annual or bi-annual rotation. All courses were first taught at TAMUCT with the exception of MTHK 306 and MTHK 409. MTHK 301, 306, 350, 370, 409, 490(a-b), 505, 509, 511, 575, and 590(a-d) have required my full development with online supplemental materials in the form of notes, readings, quizzes, and videos.

- (1) MTHK 301: Number Theory.
- (2) MTHK 306: Differential Equations.
- (3) MTHK 309: Algebraic Functions.(Online).
- (4) MTHK 311: Probability and Statistics I.
- (5) MTHK 350: Introduction to Bio-Statistics.(Math and Science Majors).
- (6) MTHK 370: Introduction to Linear Programming.(Online)
- (7) MTHK 409: Advanced Analysis.(Writing Intensive/Capstone).
- (8) MTHK 420: Math Modeling.
- (9) MTHK 490a: Topics in Fourier Analysis.
- (10) MTHK 490b: Topics in Actuarial Mathematics.(Online).
- (11) MTHK 505: Probability.(Online).
- (12) MTHK 508: Abstract Algebra.
- (13) MTHK 509: Complex Analysis.
- (14) MTHK 511: Operations Research I.(Online).
- (15) MTHK 550: Advanced Linear Algebra.
- (16) MTHK 560: Numerical Analysis.(Online)
- (17) MTHK 575: Statistical Reasoning and Probability.
- (18) MTHK 588: Thesis.
- (19) MTHK 590a: Topics in Linear Programming.(Online)
- (20) MTHK 590b: Topics in Partial Differential Equations.
- (21) MTHK 590c: Topics in Actuarial Mathematics.
- (22) MTHK 590d: Topics in Number Theory.

Courses Taught Prior to 2011

- (1) College Algebra
- (2) Trigonometry
- (3) Basic Probability and Statistics
- (4) Finite Mathematics
- (5) Business Calculus
- (6) Calculus for Applied Science
- (7) Calculus I
- (8) Calculus II
- (9) Calculus III
- (10) Differential Equations
- (11) Topology
- (12) Real Analysis I
- (13) Seminar: Wavepacket Analysis