

## CONTACT INFORMATION

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## EDUCATION

**The University of Tennessee**, Knoxville, Tennessee

Ph.D., Mathematics, May 2011

- Dissertation Title: *Bounded Geometry and Property A for Nonmetrizable Coarse Spaces*
- Advisor: Professor Jerzy Dydak
- Area of Study: topology/geometry

M.S., Mathematics, August 2006

- Thesis Title: *Nikolski's approach to the theorems of Beurling and Nyman regarding zeros of the Riemann  $\zeta$ -function*
- Advisor: Professor Stefan Richter
- Area of Study: analysis

**The University of Tennessee at Martin**, Martin, Tennessee

B.S., Mathematics, May 2004

- *Magna cum Laude*
- Minor in English
- Elected to  $\Phi\Kappa\Phi$  in 2004

## RESEARCH INTERESTS

Coarse geometry, general topology, algebraic topology

## ACADEMIC EXPERIENCE

**St. Petersburg College**, Tarpon Springs, Florida

*Adjunct Faculty*

**August 2013 to Present**

- Instructor for MAT 1033: Intermediate Algebra
  - Fall 2013 (3 sections)
  - Responsible for 75 minute (interactive) lecture two days per week
  - Used Angel to post announcements and homework, upload documents such as lecture notes, and send important mass emails
  - Responsible for developing and administering exams
  - Used MyMathLab for online homework
  - Topics covered: linear equations and inequalities, absolute value equations, graphing linear equations and slope, functions, systems of linear equations and inequalities, problem solving, rational and radical expressions and equations, quadratic functions and equations, polynomials and exponents, factoring

**Eckerd College**, St. Petersburg, Florida

*Adjunct Faculty*

**August 2013 to Present**

- Instructor for MA 105M: Precalculus
  - Fall 2013
  - Responsible for 90 minute (interactive) lecture two days per week
  - Used Moodle to post announcements and homework, upload documents such as homework and exam solutions, and send important mass emails

- Responsible for developing and administering exams
- Topics covered: linear equations and inequalities, absolute value equations, graphing linear equations and slope, functions, rational and radical expressions and equations (with graphing), quadratic functions and equations, polynomials and exponents, factoring, rational root test, Descartes' rule of signs, Fundamental Theorem of Algebra, logarithmic and exponential functions and equations (with graphing), trigonometric functions and their graphs, the Unit Circle, trigonometric identities,
- Instructor for MA 132M: Calculus II
  - Fall 2013
  - Responsible for 90 minute (interactive) lecture two days per week
  - Used Moodle to post announcements and homework, upload documents such as homework and exam solutions, and send important mass emails
  - Responsible for developing and administering exams
  - Topics covered: Antiderivatives, integration by parts, substitution, trigonometric substitution, partial fraction decomposition, Riemann sums, definite integrals, Fundamental Theorem of Calculus, work and energy, approximating functions with polynomials, power series, Taylor series, theorems of series and sequences, convergence tests

**Truman College**, Chicago, Illinois

*Full-Time Tenure Track Instructor*

**January 2012 to August 2013**

- Instructor for MATH 207: Calculus and Analytic Geometry I
  - Spring 2012, Spring 2013
  - Responsible for 145 minute (interactive) lecture two days per week
  - Used Blackboard to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Responsible for developing and administering exams
  - Held weekly quizzes to assess student progress
  - Topics covered: review of functions, limits, derivatives, differentiation techniques, mean value theorem, first and second derivative tests, optimization, related rates, Newton's method, definite and indefinite integration, Riemann sums, method of  $u$ -substitution
- Instructor for MATH 144: Finite Mathematics
  - Spring 2012
  - Responsible for 110 minute (interactive) lecture two days per week
  - Used Blackboard to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Responsible for developing and administering exams
  - Held weekly quizzes to assess student progress
  - Topics covered: systems of linear equations and applications, matrices and systems, linear programming and applications, simple and compound interest, sinking funds and amortization, basic probability, Bayes' Theorem, expected value, descriptive statistics, binomial and normal distributions
- Instructor for MATH 141: Plane Trigonometry
  - Spring 2012
  - Responsible for 160 minute (interactive) lecture one day per week
  - Used Blackboard to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Responsible for developing and administering exams

- Held weekly quizzes to assess student progress
  - Topics covered: angles, triangles, radian and degree measure, trigonometric functions defined on a right triangle and on the unit circle, trigonometric identities and equations, inverse trigonometric functions, Law of Sines and Law of Cosines, vectors, DeMoivre's Theorem, and applications as appropriate
- Instructor for MATH 125-1: Introductory Statistics
    - Summer 2012
    - Responsible for 245 minute (interactive) class two days per week
    - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
    - Responsible for developing and administering exams
    - Used MyMathLab by Pearson for online homework
    - Used Excel to expose students to how technology is used in the workplace to solve statistical problems
    - Topics covered: frequency distributions, histograms, measures of central tendency, measures of dispersion, measures of position, probability concepts, the binomial distribution, the normal distribution, the Central Limit Theorem, confidence intervals, hypothesis testing, and an introduction to correlation.
- Instructor for MATH 99: Intermediate Algebra with Geometry
    - Spring 2012, Fall 2013 (3 sections), Spring 2013 (2 sections), Summer 2013 (1 section)
    - Responsible for 135 minute (interactive) lecture two days per week, except for summer, which was 290 minutes two days per week
    - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
    - Responsible for developing and administering exams
    - Used MyMathLab by Pearson for online homework
    - Topics covered: review of linear equations, functions, and inequalities, problem solving, quadratic equations, rational and radical expressions, absolute value equations, graphing linear and quadratic equations, Pythagorean Theorem
- Instructor for MATH 98: Beginning Algebra with Geometry
    - Summer 2012
    - Responsible for 230 minute (interactive) class two days per week
    - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
    - Responsible for developing and administering exams
    - Used MyMathLab by Pearson for online homework
    - Topics covered: real numbers and their basic properties, order of operations, algebraic expressions, integer exponents and scientific notation, polynomial operations, factoring, linear and factorable quadratic equations in one variable, linear inequalities in one variable, literal equations, and systems of linear equations in two variables, perimeter, area, and volume

*Adjunct Faculty*

**August 2011 to December 2011**

- Instructor for MATH 118: General Education Mathematics
  - Fall 2011
  - Responsible for 105 minute (interactive) lecture two days per week
  - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails

- Responsible for developing and administering exams
- Assigned homework assignments that teach students to think critically, abstractly, and logically
- Topics covered: sets, finite and infinite Sets, proof by contradiction, rational and irrational Numbers, proof that the square root of 2 is irrational, basic Euclidean geometry, the Golden Ratio, probability
- Instructor for MATH 99: Intermediate Algebra with Geometry
  - Fall 2011 (2 sections)
  - Responsible for 140 minute (interactive) lecture two days per week
  - Responsible for developing and administering exams
  - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Used MyMathLab by Pearson for online homework
  - Topics covered: review of linear equations, functions, and inequalities, problem solving, quadratic equations, rational and radical expressions, absolute value equations, graphing linear and quadratic equations, Pythagorean Theorem

**The University of Tennessee**, Knoxville, Tennessee

*Graduate Teaching Associate*

**August 2005 to August 2011**

- Instructor for MATH 115: Statistical Reasoning
  - Summer 2011
  - Responsible for 90 minute lecture five days per week
  - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Responsible for developing and administering exams
  - Used [CourseCompass](#) for administering homework and communicating with students regarding homework questions
  - Topics covered: descriptive statistics, probability, inferential statistics, discrete distributions, normal distributions, hypothesis testing, estimating population parameters
- Recitation for MATH 142: Calculus II
  - Spring 2011 (2 sections)
  - The course was a large lecture (140 students) of which I was assigned 70 students
  - The course instructor was Associate Professor **Dr. Jim Conant**
  - Responsible for one 50 minutes review session per week
  - Responsible to grade weekly homework assignments and to assist in grading and proctoring exams
- Instructor for MATH 115: Statistical Reasoning
  - Fall 2010 (2 sections)
  - Responsible for 75 minute lecture two days per week
  - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Responsible for developing and administering exams
  - Used [CourseCompass](#) for administering homework and communicating with students regarding homework questions
  - Topics covered: descriptive statistics, probability, inferential statistics, discrete distributions, normal distributions, hypothesis testing, estimating population parameters

- Instructor for MATH 231: Differential Equations
  - Summer 2010
  - Responsible for 90 minute lecture five days per week
  - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Responsible for developing and administering exams, select homework assignments
  - Topics covered: focuses on ordinary differential equations (ODE), initial value problems, separable equations, first order linear ODE, second order linear ODE: method of undetermined coefficients and variation of parameters, systems of ODE, Laplace transforms
  
- Instructor for MATH 142: Calculus II
  - Spring 2010
  - Responsible for 50 minute lecture four days per week
  - Responsible for developing and administering exams, select homework assignments
  - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Topics covered: integration, volume of surfaces of revolution, infinite series, Taylor series
  
- Instructor for MATH 141: Calculus I
  - Fall 2009
  - Responsible for 50 minute lecture four days per week
  - Responsible for developing and administering exams, select homework assignments
  - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Topics covered: limits, derivatives, differentiation techniques, l'Hospital's rule, mean value theorem, first and second derivative tests, optimization, related rates, Newton's method
  
- Recitation for MATH 125: Basic Calculus
  - Spring 2009
  - Responsible for one 75 minute review session per week
  - Responsible to grade quizzes and worksheets and to proctor the final exam
  
- Instructor for MATH 125: Basic Calculus
  - Summer 2008
  - Responsible for 90 minute lecture five days per week
  - Topics covered: limits, derivatives, basic optimization and related rates, integration (techniques: substitution and integration by parts), consumer's and producer's surplus
  
- Instructor for MATH 113: Mathematical Reasoning
  - Fall 2005 (2 sections), Fall 2006 (2 sections), Summer 2007, Fall 2007 (2 sections), Spring 2008, Fall 2008 (2 sections)
  - Responsible for either a 75 minute lecture or a 50 minute lecture depending on whether the section met two or three times per week
  - Responsible for a 90 minute lecture five times per week for the summer term
  - Topics covered: definitions of natural and rational numbers, integers, primes, sets, one-to-one correspondences, cardinality, golden ratio and golden rectan-

gle, basic topology, basic probability, basic finance formulas; theorems and proofs: Pythagorean theorem,  $\sqrt{2}$  irrational, cardinality of the reals, etc.

- Instructor for MATH 130: Precalculus
  - Spring 2006 and Spring 2007
  - Responsible for a 75 minute lecture two times per week
  - Topics covered: review of algebra (functions, graphs, logarithms, etc.), trigonometric functions, etc.
- Instructor for MATH 119: College Algebra
  - Summer 2009
  - Responsible for a 90 minute lecture five times per week
  - Utilized [WebAssign](#) for assigning and administering homework
  - Responsible for developing and administering exams, select homework assignments
  - Used [Blackboard](#) to post announcements and homework, upload documents such as exam solutions, and send important mass emails
  - Topics covered: algebraic expressions, solving linear and quadratic equations, graphing and analyzing polynomial and rational functions, exponential and logarithmic functions, etc.

*Graduate Student*

**August 2004 to May 2011**

- Obtained funding to attend a VIGRE minicourse on [coarse differentiation](#) at the University of Utah in Summer 2008
- Sample of courses taken: Topology, Riemannian Geometry, Algebraic Topology, Knot Theory, Real and Complex Analysis, Partial Differential Equations, Abstract Algebra, Probability
- Various seminar talks given: Yu's Property A, The Jones Polynomial, Hyperbolic Approximations of Metric Spaces

*Grader*

**Spring 2008**

- Math 241 Calculus III
- Instructor: Assistant Professor Remus Nicoara
- Graded Weekly Quizzes

**The University of Tennessee at Martin**, Martin, Tennessee

*Supplemental Instructor*

**Summer 2004**

- MATH 251 Calculus I
  - Attended lectures daily and took lecture notes
  - Met with students in the afternoon for a review session
  - Completed all homework assignments and exams
- MATH 252 Calculus II
  - Attended lectures daily and took lecture notes
  - Met with students in the afternoon for a review session
  - Completed all homework assignments and exams

*Lecturer*

**Fall 2003 to Spring 2004**

- MATH 140 College Algebra (self-paced course)
  - Taught 2 semesters
  - Only responsible for 2 to 3 hours lecture once per week
  - Course was structured by [Tom Eskew](#), including exams
  - Topics covered: algebraic expressions, solving linear and quadratic equations, graphing and analyzing polynomial and rational functions, exponential and logarithmic functions, matrices, trigonometry

*Tutor*

**Fall 2002 to Spring 2004**

- Assisted students with problems from algebra, trigonometry, calculus, probability, and statistics
- Proctored exams for the self-paced courses

PROFESSIONAL  
DEVELOPMENT

- April 12, 2013: Technology in Education Day at Harold Washington College
- April 4, 2013: In-service on using the Smart Board by Edward Tang
- March 23, 2013: Chicago Symposium Series at Loyola University Chicago
- March 2, 2013: Meeting on the new Preparatory Mathematics for General Education course being proposed by IMACC to ICCB
- August 9, 2012: Presentation with Sheila McNicolas at the local Truman Faculty Development meeting on Tactile Geometry
- August 8, 2012: District-wide Faculty Development meetings
- May 22–26, 2012: Faculty Developmental Seminar by City Colleges of Chicago
- April 20, 2012: Workshop on MyMathTest led by Pearson and held at Malcolm X College
- April 13, 2012: Technology in Education Day at Harold Washington College
- March 30, 2012: Library Workshop for Tenure-Track Faculty led by Leone McDermott and held at Truman College
- March 23, 2012: Workshop on the nuts and bolts of the tenure process led by Dean Loretta Bailes and held at Truman College
- March 16, 2012: Webinar on Enhanced WebAssign by Cengage Learning
- March 6, 2012: Cengage presentation on Enhanced Webassign at Truman College
- February 25, 2012: IMACC Forum on Developmental Mathematics
- February 24, 2012: CCC Math and Science Summit held at Malcolm X College
- February 23, 2012: Presentation on how to deal with unruly students led by Joy Walker at held at Truman College
- February 21, 2012: Cengage presentation on textbooks by Senior Editor Marc Bove at Truman College
- February 3, 2012: Workshop on effective SmartBoard usage by Naga Potluri at Truman College

PROFESSIONAL  
MEMBERSHIPS

- Mathematical Association of America (MAA)
- American Mathematical Society (AMS)

COMMUNITY  
SERVICE  
ACTIVITIES

- January 27, 2012: Judged for the CPS Regional Science Fair held at Truman College
- Judged at timed events at the UT Pro2Serve Math Contest, 2005–2010

DEPARTMENTAL  
ACTIVITIES

- Exit Exam Committee, 2012-2013
- Assessment Committee, 2012-2013
- Textbook Search Committee, 2012-2013

COLLEGE AND  
DISTRICT  
ACTIVITIES

- Faculty Registration Committee, 2013
- Math 90 PAC team (district-wide), 2013
- Discipline Committee, 2013
- Learning Spaces Committee, 2013
- Center for Teaching and Learning Advisory Committee, Truman College, 2012

CONFERENCE  
TALKS

Spring 2004 MAA Sectional Meeting in Clarksville, TN, *Some Calculations Related to the Riemann Hypothesis*, Advisor: Professor Chris Caldwell

Spring 2010 AMS/MAA Annual Meeting in San Francisco, CA, *Generalizations to Coarse Geometry*

COMPUTER SKILLS  $\text{\LaTeX}$ , MATLAB, Maple, Microsoft Office

PROFESSIONAL  
REFERENCES

- Simon Aman, Ph.D., Mathematics Chairperson, Truman College  
saman2@ccc.edu, 773-907-4088
- Abdallah Shuaibi, Ph.D., Associate Professor of Mathematics, Truman College  
ashuaibi1@ccc.edu, 773-907-4085
- Jerzy Dydak, Ph.D., Professor of Mathematics, University of Tennessee  
dydak@math.utk.edu, 865-974-4322

Updated: 1/6/2014 by Jared Bunn