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EDUCATION

M.S. Xavier University, Customer Analytics
Summa Cum Laude

M.Ed. Xavier University, Secondary Education
Concentration: Mathematics
Summa Cum Laude

B.S. Miami University, Mathematics & Statistics
Minor: Operations Research

TEACHING EXPERIENCE

Xavier University, Cincinnati, Ohio	***2003 to Present***
Senior Teaching Professor, Department of Business Analytics & Info Systems	2020-Present
Teaching Professor, Department of Business Analytics & Info Systems	2020
Teaching Professor, Department of Mathematics	2017 - 2019
Visiting Instructor, Department of Mathematics & Computer Science	2009 - 2016
Adjunct Instructor, Department of Mathematics & Computer Science	2003 - 2009
Adjunct Instructor, Department of Education	2003 - 2009

- Developed four complete online courses. Created content for each course and set up the Canvas site. Each course included instructional videos, presentation materials, practice problems, assignments, and exams.
    - STAT210 (Business Statistics I), Summer 2015; later changed to BAIS210
    - BAIS211 (Intro to Business Analytics), Summer 2020
    - MATH116 (Elementary Statistics for typical undergraduate students), Summer 2016
    - MATH116 (Elementary Statistics for the Accelerated Bachelor of Science in Nursing program), Spring 2017

- Taught 4,000+ students in the following undergraduate courses, with class sizes up to 32 students, in both face-to-face and online formats. Developed all activities and assignments for each course. Courses taught include:
    - BAIS210 (Quantitative Methods)/STAT210 (Business Statistics I): descriptive statistics, basic probability, normal distribution, confidence intervals, correlation, and hypothesis tests, within the context of business and utilizing Excel.

- BAIS211 (Introduction to Business Analytics): applied overview of business analytics which includes data visualization, statistical inference, simple & multiple regression techniques, decision analysis and spreadsheet modeling. Additional topics include "what if" analysis and introductory linear optimization.
- BAIS329 (Data Mining): introduction to the basic theory, tools, and techniques of data mining, including prediction, associations, clustering, and recommendation systems through two points of view: the technological view and the marketing management view.
- EDFD507/8 (Educational Research): graduate course covering methodologies and statistics in research, using both a blended and a face-to-face style of teaching.
- MATH105 (Fundamentals of Mathematics): integers, rational numbers, exponents, order of operations, functions in context including their algebraic and graphical representation, linear equations, and quadratic equations.
- MATH113 (Mathematics of Finance): simple and compound interest, discounting, annuities, amortization and sinking funds, stocks, bonds, insurance.
- MATH115 (Topics in Applied Mathematics): the application of elementary mathematics to real world problems: management science, voting schemes, theory of games, population growth, and other models.
- MATH116 (Elementary Statistics): introduction to statistical thinking and its application to a wide variety of areas. Topics include statistical and visual methods for summarizing data, basic principles of probability, regression, and fundamentals of hypothesis testing and confidence intervals. Critical examination of the results of a statistical analysis is emphasized.
- MATH120 (Elementary Functions): graphs and properties of functions, including polynomial, exponential, logarithmic, inverse, and composite functions. Applications to real world situations using algebraic, numerical, and graphical methods.
- MATH150 (Elements of Calculus I): modeling data with polynomial, exponential, and logistic functions as well as rates of change and the derivative. Application of the derivative including optimization and inflection points are discussed as well as results of cumulative change and the definite integral.
- MATH156 (General Statistics): concepts and tools used for collecting, analyzing, and making inferences from data. Topics include graphical displays, correlation, regression, design of experiments, probability, simulation, random sampling, confidence intervals and hypothesis testing.
- MATH202 (Geometry and Measurement – Early Childhood Education): Concepts necessary for an understanding of basic geometry: shapes in one, two, and three dimensions, scientific measurement and dimensional analysis, congruence and similarity of figures, compass and straight edge constructions, transformations, and coordinate geometry. Computer software to explore geometric concepts is used in the classroom.
- MATH211 (Foundations of Arithmetic for Middle Childhood Educators): Concepts necessary for understanding the structure of arithmetic, its algorithms, and properties (with whole numbers, integers, rational and irrational numbers), basic set theory and introductory number theory.

The Christ College of Nursing and Health Sciences, Cincinnati, Ohio ***2013 to Present***
Adjunct Instructor, Mathematics & Statistics

- Taught the following undergraduate courses, using an online format.
    - MAT105 (College Algebra) 11 sections: this course is designed to study the basic concepts of arithmetic and algebra, the real numbers, linear equations, inequalities, quadratic equations, graphic, rational expressions, functions, exponents, radicals, exponential functions, logarithmic functions, and systems of linear equations.
    - STAT201 (Introduction to Statistics) 3 sections: this course focuses on the use of statistics to conduct and critique research and includes descriptive statistics, confidence intervals, hypothesis testing, and the use of computer software for statistical applications. Students will learn to apply, analyze, and interpret statistics from research articles and data in the health care setting.

RELATED EXPERIENCE

PriceWaterhouseCoopers, Cincinnati, Ohio ***1992 to 2001***
Principal Consultant (Project, Program & Training Manager)

- Experienced in training diverse audiences with class sizes up to 40 people. Course materials ranged from consulting fundamentals, presentation skills, project management, coaching, team building and interviewing skills to more technical training in computer software products like PeopleSoft, project planning applications, and document preparation toolkits.
- Successfully managed several project teams through all stages of the information technology development lifecycle (from analysis to implementation). Team sizes were up to 35 people with some teams physically located around the world. Two example projects include:
    - Managed data analytics effort for a $1B+ information services provider. Developed standardization practices and streamlined existing structures to integrate customer and prospect data. This provided better data accessibility for segmentation and campaign management tools.
    - Managed global project team from the US, UK, Poland, and Germany during the implementation of a Reporting, Analysis, List, and Campaign Management system to a UK- and US-based division, of a Fortune 30 consumer products company. Responsible for all project management tasks and product demos to business users.
- Organized all methodology and tools for a global PeopleSoft practice of 1,800 employees. Presented existing products, development initiatives and service offerings to all levels within the organization including the global leader of the practice. Global point of contact for all issues, inquiries, and support.

AWARDS / RECOGNITION

Wheeler Award, 2023, Awarded for course development, conference/training, and software development associated with BAIS329 (Data Mining).

WCB Teaching Development Award, 2023, USCOTS (US Conference on Teaching Statistics).

Center for Teaching Excellence (CTE) "Thank a Professor" Notes, 2023, 2022, 2021, 2020.

CTE Recognition for Online Teaching Materials, 2016, Personal course materials used in New Hire Faculty Canvas Orientation.

Office of Resident Life "Favorite Teacher" Faculty Recognition, 2010, 2009.

PRESENTATIONS

CTE Facilitator, IOCD (Introduction to Online Course Design) Discussion, February 2020.

CTE Presentation, "Technology Tools to Enhance Student Engagement – Kahoot and Socrative," Celebration of Teaching Excellence, September 2019.

CTE Presentation, "Enhancing Classroom Activities with Self-Correcting Excel Files," Digital Learning Day, February 2018.

CTE Presentation, "Make it Stick - Promoting Successful Learning," Reading Day, May 2016.

CTE Presentation, "Preparing for Summer Online Courses," Idea Swap Day Facilitator, April 2016.

CTE Presentation, "Best Practices for Organizing Courses in Canvas," Canvas Technology Boot Camp, January 2016.

PROFESSIONAL TRAINING

Diversity and Inclusion Teaching Academy, Spring 2018 and Spring 2019
The academy provides faculty with resources to be more inclusive in their teaching and responsive to the needs of an increasingly multicultural campus. During two eight-week sessions, taking place over two semesters, the following two objectives are met: (1) Faculty examine how structures and lived experiences influence their ability to effectively teach a diverse student body and (2) After reflection on one's personal cultural framework and its impact on teaching practices, faculty identify strategies for fostering greater inclusivity in personal teaching.

Storytelling Workshop, April 2019
Based on the principles from the books "Lead with a Story" and "Sell with a Story", this workshop explained the what, why, when, and how to tell stories with data. www.leadwithastory.com

Teaching Online Quantitative Classes, July 2018
Presented by the Finance Department and Karyl B. Leggio from Loyola University Maryland, this workshop shared ideas on how to teach a quantitative course in an online environment.

APPQMR (Applying the Quality Matters Rubric) Certification, January 2017
Certification course to use the QM rubric. As outlined on their website, "The Quality Matters Higher Education Rubric is a set of standards used to evaluate the design of online and blended courses."

Flip-It Workshop, Northern Kentucky University, April 2015
One-day workshop on how to 'flip' class from the traditional lecture structure to one where students learn at home via online coursework and lectures, and teachers use class time for teacher-guided practice and projects.

Introduction to Online Course Design (IOCD), Xavier University, Fall 2014
IOCD is a training course intended to guide the development of online courses at Xavier and provides an opportunity for faculty to learn about online pedagogy and apply best practices for online teaching and course design.

PROFESSIONAL DEVELOPMENT

Faculty Participant, Cintas Center "International Ethics in London and Paris" MBA Trip, Spring 2023

Faculty Learning Community (FLC) Participant, Renewing Joy, 2022–2023
This group explored how to bring joy back to teaching and to reignite a passion for education in a post-pandemic world. Structured reflection/exploration of teaching values and strengths, as well as an exploration of pedagogies, particularly Contemplative Practices, were used to identify how to reconnect vocational experiences to personal educational philosophies were pursued.

FLC Participant, Future Models of Teaching and Learning, 2021
This FLC explored new models, opportunities for instruction and course formats informed by recent learnings post-pandemic and compared them with previous models. The goal was to be equipped with new skills and enhanced understanding of what helps students succeed.

Ethics Mentee, Cintas Center for Business Ethics, 2020–2021

Affinity Group for Online Learning, Fall 2019, Spring 2020
Part of a small group from across the university who are meeting regularly to share ideas, experiences and feedback regarding online teaching. Specifically, this group is exploring academic dishonesty and cheating prevention.

FLC Co-Facilitator, Open Educational Resources (OER) and Affordable Learning (AL), 2018–2019.
Under the premise of making education affordable for all, this group explored what it means to be an OER, how to make learning affordable and how inclusive access works at Xavier. Findings were captured in a LibGuide (http://libguides.xavier.edu/oer) with suggestions on how to get started to change a course, whether it means adding supplemental materials, doing minor tweaks to the content or changing to something entirely new.

FLC Co-Facilitator, Enriching the Online Learning Experience, 2016–2017
Best practices in online teaching were explored in the areas of: instructor presence & student engagement, online writing, videos and accessibility, group work, formative assessment, and peer/teacher reviews.

Teaching Mentoring Pairs, Center for Teaching Excellence
- 2020 Spring (Amy Buot, Mathematics)
- 2019 Fall (Laura Carney, Sports Studies)
- 2019 Spring (Brett Stowell, Business Analytics & Information Systems)

- 2018 Spring (Julie Kugler-Ackley, Montessori Education)
- 2017 Spring (Christian Mastilak, Accounting)
- 2014 Spring (Tim Miller, Accounting)
- 2013 Spring (Mollie McIntosh, Biology)

Book Discussion Groups

- 2022 Summer, *Flipped Learning* by Robert Talbert, CAUSE (Consortium for the Advancement of Undergraduate Statistics Education)
- 2022 Spring, *Relationship Rich Education* by Peter Felten and Leo Lambert, CTE
- 2021 Fall, *Cheating Lessons* by James M Lang, CTE
- 2021 Summer, *Tiny Habits by BJ Fogg*, XU
- 2021 Spring, *Sanctuaries* by Dan Tricarico, CTE
- 2020 Spring, *Minds Online; Teaching Effectively with Technology* by Michelle Miller, CTE
- 2019 Fall, *The Spark of Learning, Energizing the College Classroom with the Science of Emotion* by Sarah Rose Cavanagh, CTE
- 2019 Spring, *iGen, Why Todays Super-Connected Kids Are Growing Up Less Rebellious, More Tolerant, Less Happy – and Completely Unprepared for Adulthood* by Jean M Twenge, PhD, CTE
- 2017 Fall, *Generation Z Goes to College* by Corey Seemiller and Meghan Grace, CTE
- 2016 Fall, *Specifications Grading* by Linda Nilson, CTE
- 2016 Spring, *Make it Stick, The Science of Successful Learning*, by Mark McDaniel and Peter Brown, CTE

PROFESSIONAL SERVICE

AP Reading Scorer for Statistics, Educational Testing Services (ETS), Summer 2020, 2022

Invited Participant, Business Analytics Success Summit (McGraw-Hill Education), June 2019
Shared strategies and suggestions with textbook authors about how to structure the first edition Business Analytics textbook and how to prevent academic dishonesty with the testing materials.

Textbook Reviewer, Jaggia & Kelly Business Statistics, 3e, Spring 2018 & Fall 2017
Spent 75 hours creating and reviewing test bank and exercise questions for the newest release of the textbook.

Wiley Plus NextGen Pilot Participant, Spring–Summer 2018
Participated in the pilot of a new system from the publisher Wiley for the MATH116 course. Offered feedback through participation in focus groups, one-on-one discussions, and surveys.

UNIVERSITY AND DEPARTMENT SERVICE

First Year Seminar (FYS) Committee, August 2023–present
Oversee the First-Year Seminar Program and First Year Seminar (CORE 100) courses. The Committee reviews and approves proposals for new CORE 100 courses, supports faculty members from across the university who teach First-Year Seminars, and assesses the core curriculum SLOs specifically tied to FYS.

CTE Advisory Board, August 2023–present
Provide input into the programs and services offered by the CTE, ensuring that the CTE is faculty-focused and faculty-driven.

Pickleball Club, Faculty Advisor, 2023–present
Student intramural club founded Fall 2023.

University Conduct Board (UCB), 2021–present
Serve as the level one hearing panel for cases considered the most serious or egregious nature, often involving the possibility of separation from the University. The board makes decisions regarding responsibility (and recommended sanctions) after careful consideration of all information presented at the hearing.

Xavier Technology Committee, 2019–present (Faculty Co-Chair, 2022–present)
Provide information-gathering, analysis, and recommendations on a wide range of educational technologies. Recommend the broad-based planning that integrates the academic and administrative technology needs of the University. The committee provides guidance in matters of budgeting for technology to the University community.

Xavier Cybersecurity Task Force, 2019–present
Provide faculty perspective on security policies at the University such as information classifications, user accounts, and mobile device plans.

Xavier Project Management Office (PMO) Advisory Board, 2019–present
Participate in monthly meetings as a voting member for prioritization of university projects

Academic Integrity Task Force, 2020–2021
Create policy and procedures for the university regarding academic misconduct including education for faculty and staff, legal requirements, and technology issues.

Course Scheduling, Department of Mathematics, 2017–2020
Create class schedule of roughly 70 courses for approximately 20 instructors each semester. Utilize an optimization model built from scratch to create draft schedule.

Faculty Mentor, Department of Mathematics, 2016–2020
Provide support to new faculty members in department.
Amy Buot (2018-2020)
Amanda Schwallie (2016-2018)

Hiring Committee, 2019, Assistive Technology Coordinator in the Office of Disability Services

Sunshine Fund Coordinator, Department of Mathematics, 2016–2019
Manage funds to distribute both gifts and condolences to faculty and staff during important life events and thank you gifts for staff and student workers.

Departmental Website Maintenance, Department of Mathematics, 2016–2019
Manage internal departmental Canvas “course” and assist in maintenance of external departmental website,

Accelerated Bachelor of Science in Nursing (ABSN) Program and Orbis Education Liaison, 2016–2018
Work with Orbis Education (the outside firm that supports the ABSN program and runs all the clinicals) to coordinate the MATH116 Elementary Statistics prerequisite course. This requires the preparation, updating, and teaching of the course.

Hiring Committee, 2016, Instructional Designer in the Department of Instructional Design and Technology

COMMUNITY SERVICE

Building Blocks for Kids (BB4K), Board Member & Secretary, 2023–present
Building Blocks for Kids envisions a community where the needs of children with physical, emotional and developmental challenges are being met. Founded in January 2003, Building Blocks has given assistance to more than 800 individual children who, once in our system, are fondly referred to as BB4K kids. Some of our BB4K kids have needed help with multiple needs and may apply for assistance once per calendar year. As of January 2021, BB4K has provided more than $1.6 million in scholarships.

Girl Scout Leader, 2015–2022

Private Math Tutor, Algebra II and Pre-Calculus, 2016–2018

Science Fair Judge, Mason High School, 2016, 2017

Lego® Mindstorms Robotics Teacher, 2013
After School Enrichment Program (4-6th grade students), Mason Intermediate School
Taught students how to program Lego robots and challenged them with new tasks during each weekly session.

Destination Imagination Team Leader, 2009–2010
Led group of nine 1st and 2nd grade boys through a program dedicated to teaching "21st century" skills and STEM principles using collaborative problem-solving challenges.

COMPUTER SKILLS

Programming: R, SQL

Statistical Applications: Excel, JMP, StatCrunch, StatKey, TI-83

OTHER

Walking, Volleyball, Fiber Arts, Reading, Biking, Golf