

Kimberly Swetz

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EDUCATION

- Master of Science, Applied Mathematics (Operations Research)** **2015**
University of Colorado, Denver, CO
Final Project: Planning Bus Routes in Denver Public Schools
Advisor: Dr. Stephen Hartke
- Master of Science, Applied Mathematics** **2002**
California State Polytechnic University, Pomona, CA
Thesis: The Four Color Problem
Advisor: Dr. Daniel Marcus
- Bachelor of Science, Mathematics (Secondary Education)** **1995**
Biola University, La Mirada, CA

TEACHING AND MENTORING EXPERIENCE

- Instructor, Quantitative Methods** **2018-present**
College of Business, University of Colorado, Colorado Springs, CO
- Instructor, Data Analytics and Systems Engineering** **2017-2018**
College of Engineering and Applied Science, University of Colorado, Colorado Springs, CO
- Adjunct Instructor, Mathematics** **2015-16,18**
Pikes Peak Community College, Colorado Springs, CO
- Lead Faculty, Mathematics** **2016-2017**
Colorado Technical University, Colorado Springs, CO
- Teaching Assistant, Mathematics** **2013-2015**
University of Colorado, Denver, CO
- Lecturer, Mathematics** **2012, 2013**
Colorado Technical University, Colorado Springs, CO
- Assistant Professor, Department of Mathematical Sciences** **2008-2013**
United States Air Force Academy, Colorado Springs, CO
- Instructor, Department of Mathematical Sciences** **2006-2008**
United States Air Force Academy, Colorado Springs, CO
- Teaching Associate (Lecturer), Mathematics** **1996-2005**
California State Polytechnic University, Pomona, CA
- Teacher, Mathematics** **2004-2006**
Whittier Christian High School, La Habra, CA

PROFESSIONAL EXPERIENCE

Modeling and Simulation Analyst 2016
Decisive Analytics Corporation, Colorado Springs, CO

Summer Program for Operations Research Technology (SPORT) Intern 2015
National Security Agency, Fort Meade, MD

Associate Athletic Director 2002-2006
Whittier Christian High School, La Habra, California

HONORS AND AWARDS

Outstanding Summer Student Award, The National Security Agency, Fort Meade, MD 2015

Lynn Bateman Memorial Teaching Award, University of Colorado, Denver, CO 2015

Exemplary Civilian Service Award, Department of the Air Force 2013

General Daniel W. Litwhiler Award, Air Force Academy, CO 2008

Tony M. Johnson Teaching Excellence Award Nominee, Air Force Academy, CO 2008

UNDERGRADUATE COURSES DEVELOPED AND/OR TAUGHT

University of Colorado, Colorado Springs

DASE 4000 Introduction to Operations Research

DASE 4030 Introduction to Systems Engineering

DASE 4910 Design of Experiments

Pikes Peak Community College, Colorado Springs

MAT 121 College Algebra

MAT 135 Introduction to Statistics

MAT 166 Precalculus

MAT 179 Computer Applications- Statistics

Colorado Technical University, Colorado Springs

MATH 106 Algebra for Business

MATH 109 Introduction to Algebra

MATH 112 College Algebra

MATH 114 Analytic Trigonometry

MATH 116 Foundations for Calculus

MATH 207 Integral Calculus

University of Colorado, Denver

MATH 1080 Polynomial Calculus

MATH 1120 College Trigonometry

MATH 1130 Precalculus

MATH 1401 Calculus I

MATH 3200 Elementary Differential Equations

United States Air Force Academy, Department of Mathematical Sciences

MATH 141 Calculus I

MATH 142 Calculus II

MATH 152 Advanced Calculus II

MATH 245 Differential Equations

MATH 300 Introduction to Statistics
MATH 340 Discrete Mathematics
MATH 499 Teaching Practicum

California State Polytechnic University, Pomona

MATH 9 Introductory Mathematics
MATH 10 Prealgebra
MATH 11 Basic Algebra
MATH 12 Intermediate Algebra
MATH 105 College Algebra
MATH 106 Trigonometry
MATH 115 Analytic Geometry and Calculus II
MATH 116 Analytic Geometry and Calculus III
MATH 130 Technical Calculus I
MATH 191 Survey of Math
MATH 215 Calculus of Several Variables II
MATH 216 Differential Equations
MATH 391 Elementary Mathematics from an Advanced Viewpoint
MATH 392 Elementary Geometry from an Advanced Viewpoint
STA 120 Statistics with Applications

SCHOLARSHIP

“Flipping the Narrative on Adaptive Learning: It’s not just an online tool anymore!”, Presentation at COLTT, co-presenter with Dr. Amy Kahn and Jennifer Daines. Boulder, CO, August 2017.

“Planning Bus Routes and Bell Times”, UCD Math Clinic Presentation to Denver Public Schools, co-presenter with Ana Kenney and Jin Choi. May 2015.

“An ODE to Modeling with ODEs”, Presentation at the Joint Mathematics Meeting, New Orleans, LA, January 2011.

“Modeling the Buoyancy Properties of a Submarine”, Presentation at MathFest, co-presenter with Dr. James Rolf, Madison, WI, August 2008.

“Calculus from the mouths of babes: Improving Students’ Math Communications Skills Using Formal Problem Briefs”, Article in the USAFA Educator, co-authored with Capt Jadonna Brewton, Spring 2008.

“Calculus from the mouths of babes: Improving Students’ Math Communications Skills Using Formal Problem Briefs”, Presentation at the Joint Mathematics Meeting, co-presenter with Capt Jadonna Brewton, San Diego, CA, January 2008.