

WANDA M. KUNKLE
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West Chester, PA 19382
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EDUCATION

- Ph.D. Information Science and Technology**, September 2010
Drexel University, Philadelphia, PA
Dissertation: *The Impact of Different Teaching Approaches and Languages on Student Learning of Introductory Programming Concepts*. Adviser: Robert B. Allen
- M.S. Computer Science**, May 1995
West Chester University, West Chester, PA
- M.M. Piano Pedagogy**, December 1989
West Chester University, West Chester, PA
Thesis: *An Analysis and Pedagogical Discussion of Selected Piano Pieces for the Left Hand Alone*. Adviser: Richard K. Veleta
- B.M. Music Education and Mathematics (Secondary Education)**, *Magna Cum Laude*, May 1979
Marywood University, Scranton, PA
Certification: State of Pennsylvania, Music (K-12) and Mathematics (7-12)

TEACHING EXPERIENCE

University Level

- Assistant Professor of Computer Science**, August 2013 - May 2014
Department of Mathematics, Computer Science, and Statistics, Bloomsburg University, Bloomsburg, PA
Courses taught:
- Principles of Database Design
 - Graphical User Interfaces in Java
 - Visual Basic 1 and 2
- Assistant Professor of Computer Science**, August 2012 - June 2013
Department of Business and Computer Science, Lock Haven University, Lock Haven, PA
Courses taught:
- Software Engineering
 - Web-Based Application Development
 - Introduction to Computers
 - Advanced Microcomputer Applications

Computer Science Instructor, September 1996 - May 2012

Department of Computer Science, Rowan University, Glassboro, NJ

Courses taught:

- Compiler Design
- Data Structures and Algorithms
- Computer Organization
- Introduction to Programming
- Computing Environments
- Java for Object-Oriented Programmers
- Programming Languages
- Data Structures for Engineers
- Operating Systems
- Computer Science and Programming
- Computer Literacy
- Object-Oriented Programming and Data Abstraction

Mathematics Instructor, September 2007 - June 2012

Department of Mathematics, Drexel University, Philadelphia, PA

Courses taught:

- Introduction to Analysis I
- Discrete Mathematics
- Introduction to Analysis II
- Pre-Calculus

Computer Science Instructor, September 2007 - December 2007

Department of Computer Science, Saint Joseph's University, Philadelphia, PA

Courses taught:

- Introduction to Computer Programming in Java

Computer Science Instructor, June 2001 - September 2002

Department of Mathematics and Computer Science, Richard C. Goodwin College of Evening and Professional Studies, Drexel University, Philadelphia, PA

Courses taught:

- Programming Language Concepts
- Data Structures

Mathematics and Computer Science Instructor, August 1997 - December 1997

Department of Mathematics, Physics, and Computer Science, University of the Sciences in Philadelphia, Philadelphia, PA

Courses taught:

- Mathematical Analysis
- Introduction to Computer Applications

Visiting Faculty, Summers 1993, 1994, 1995, 1996

Department of Developmental Instruction, Bloomsburg University, Bloomsburg, PA

Courses taught:

- Introductory Algebra

Community College Level

Computer Science Instructor, January 2007 - May 2007

Department of Business and Computer Science, Salem Community College, Carneys Point, NJ

Courses taught:

- Computer Applications
- Introduction to Java Programming

Computer Science Instructor, January 2006 - May 2006

Department of Business and Computer Information Systems, Delaware County Community College, Media, PA

Courses taught:

- Introduction to Computer Science

Mathematics Instructor, September 1990 - May 1996

Department of Mathematics, Science, and Engineering, Delaware County Community College, Media, PA

Courses taught:

- Modern College Mathematics
- Intermediate Algebra
- Developmental Mathematics (Introductory Algebra)
- College Algebra and Trigonometry
- Basic Mathematics (Pre-Algebra)

Computer Science Instructor, January 1996 - May 1996

Department of Mathematics and Computer Science, Bucks County Community College, Newtown, PA

Courses taught:

- Introduction to Computers

RELATED EXPERIENCE

Mathematics Tutor, July 2006 - present

Kaplan Premier Tutoring, Kaplan Test Prep and Admissions, Philadelphia, PA
Provide individual instruction in SAT I, SAT II, and ACT preparation.

Human-Computer Interaction Instructor, Summer 2008

Pennsylvania Governor's School for Information, Society, and Technology (PGSIST), Drexel University, Philadelphia, PA

Instructed academically talented high school juniors in basic concepts of Human-Computer Interaction (HCI).

Mathematics Tutor, September 1993 - December 2007

College Bound, West Chester, PA

Provided individual and group instruction in SAT I preparation; provided individual instruction in Algebra I, Algebra II, Geometry, Trigonometry, Pre-Calculus, and Modern College Math.

Piano Instructor, January 1986 - May 1993

Community Music School, West Chester University, West Chester, PA

PUBLICATIONS AND PRESENTATIONS

Kunkle, W. M., and Allen, Robert B. The Impact of Different Teaching Approaches and Languages on Student Learning of Introductory Programming Concepts. Manuscript submitted to *ACM Transactions on Computing Education (TOCE)* for review.

"A Web-Based Integral Evaluator: A Demonstration of the Successful Integration of WebEQ, Maple, and Java," Poster/demonstration presented at the MathML International Conference 2002: MathML and Technologies for Math on the Web, June 2002

PROFESSIONAL AFFILIATIONS

- Association for Computing Machinery (ACM)
- ACM Special Interest Group on Computer Science Education (SIGCSE)
- Computer Science Teachers Association (CSTA)
- Institute of Electrical and Electronics Engineers (IEEE)

HONORS

- Kappa Delta Pi (National Honor Society in Education)
- Delta Epsilon Sigma (National Catholic Scholastic Honor Society)
- Kappa Mu Epsilon (National Mathematics Honor Society)
- Upsilon Pi Epsilon (International Honor Society in the Computing and Information Disciplines)
- Montclair Who's Who in Collegiate Faculty (2006-2007)

REFERENCES

- Seth D. Bergmann, M.S.E., Department of Computer Science, Rowan University
- Stephen C. Cooper, Ph.D., Department of Computer Science, Stanford University
- M. Carl Drott, Ph.D., College of Computing and Informatics, Drexel University
- Patricia Henry Russell, M.S., Dean's Office, College of Arts and Sciences, Drexel University
- Erik Wynters, Ph.D., Department of Mathematics, Computer Science, and Statistics, Bloomsburg University of Pennsylvania