

Laura D. Goadrich

Bossier Parish Community College
Business and Computer Sciences Department
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QUALIFICATIONS

Two years of experience teaching mathematics courses at Madison Area Technical College.
Six years experience teaching at University of Wisconsin-Madison.
Received 2001 Best UW-Madison Computer Science department TA award.
Working knowledge of Mathematical Software: Mathematica, MATLAB
Working knowledge of programming languages: Java, AMPL, GAMS, Machine Language, C, C++ and operating systems Unix, Linux, Windows, Mac OS X

EDUCATION

2005-2002 M.S. in Industrial Engineering, University of Wisconsin-Madison
2002-2000 M.S. in Computer Science, University of Wisconsin-Madison.
2000-1996 B.A. in Computer Science and Mathematics, Southwestern University in Georgetown, Texas.
2010-2000 Certification for Secondary Education in Mathematics and Computer Science, Southwestern University in Georgetown, Texas.

EMPLOYMENT

Madison Area Technical College: Mathematics Department

<http://www.cs.wisc.edu/~goadl/teaching.html>
Spr 2007 Full-Time Instructor for College Algebra, Principles of Geometry, Algebra Concepts, Introduction to College Math
Fall 2006 Instructor for College Algebra and Algebra Concepts
Spr 2006 Instructor for Introduction to College Mathematics
Fall 2005 Instructor for Introduction to College Mathematics and Algebra Concepts

University of Wisconsin-Madison: Computer Sciences Department

Sum 2006 Instructor for Introduction to Data Structures
<http://www.cs.wisc.edu/~goadl/cs367/>
Spr 2006 Instructor for Introduction to Numerical Methods
<http://www.cs.wisc.edu/~goadl/cs412/>
2005-2002 Summers- Instructor for Machine Programming
<http://www.cs.wisc.edu/~goadl/cs354/>
2003-2000 *Teaching Assistant*: Instructor for Introduction to Programming
Two sections a semester. Project leader to create both assignments and lessons for the course. Mentor for newer instructors.
<http://www.cs.wisc.edu/~goadl/cs302/main.html>

Research at the University of Wisconsin-Madison: Computer Sciences Department

2005-2002 Research work in radiation tumor treatment planning for multicollimator problems under Dr. Robert Meyer
2002-2001 Master's thesis in optimizing garden plot design under Dr. Meyer
<http://www.cs.wisc.edu/~goadl/mastersThesis.pdf>

PUBLICATION

Meyer, Zhang, Goadrich, Nazareth, Shi, D'Souze. *A Multiplan treatment-planning framework: a paradigm shift for intensity-modulated radiotherapy*. International Journal of Radiation Oncology for Biology and Physics Sum2007.

Gunawardena A, D'Souza W, Goadrich L, Meyer R, Sorensen K, Naqvi S, Shi L. *Difference-Matrix Metaheuristic for Intensity Map Segmentation in Step-and-Shoot IMRT Delivery*. Physics in Medicine and Biology Sp2006.

COMMUNICATION

- Fall 2004 Volunteered to instruct high school students about computer programming- Madison's chapter of Expanding Your Horizons
- Fall 2004 Poster presentation on Intensity Modulated Radiation Therapy cancer research at CIBM annual retreat at UW-Madison
- Fall 1999 Presented at Kappa Delta Pi's Biannual Convention on Educational Technology in Rhode Island on the results from a survey of secondary instructors and describing different ways that technology can be used successfully in the secondary classroom.
- Sum 1999 Presented research at the Mathematical Association of America: Texas section in San Marcos Topic titled "Interactive Probability": the introduction included information on the use of applets available publicly on the web for educational purposes.
<http://www.southwestern.edu/~shelton>
- Spr 1999 Presented results of Operation Achievement (mentoring program for minority secondary students) that statistically shows the success of the program since its induction to the President, Dean, Provost and staff of Southwestern University

REFERENCES

Available upon request.