

BARRY J. WITTMAN

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Purdue University
Department of Computer Sciences
305 N. University St.
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EDUCATION

- Ph.D. **Purdue University**
Computer Science, expected December 2008
Approximation Algorithms for Time-Constrained Vehicle Routing Problems
Greg N. Frederickson (chair), Mikhail Atallah, Gopal Pandurangan
- M.S. **Purdue University**
Computer Science, August 2005
- B.S. **Morehouse College**
Computer Science, *summa cum laude*, Mathematics minor, May 2001

TEACHING EXPERIENCE

Purdue University, Department of Computer Sciences, 2003-2009:

Student evaluation ratings given in parentheses where available.

- **Course Co-Designer**

Introduction to Programming with Concurrency Fall 2007-Spring 2008
Development of new course designed to supplant current Programming I and also introduce topics in concurrent programming.

- **Instructor**

Foundations of Computer Science Scheduled Spring 2009
Course focused on discrete mathematics and other prerequisites for upper division theory courses.

Programming in C Summer 2007
Second core programming course required for undergraduate majors. **(4.9 of 5 rating)**

- **Mentor**

Programming I Fall 2005-Spring 2007
Special mentoring position created for outstanding teaching assistants to help underperforming students recover and build a strong foundation in their first programming course. **(4.9 of 5 rating)**

- **Teaching Assistant**

Introduction to Programming with Concurrency Frequent guest lectures in addition to regular TA duties.	Fall 2008
Programming with Multimedia Objects	Fall 2004-Summer 2005 (4.1 of 5 rating)
Programming in C	Fall 2003-Spring 2004 (4.8 of 5 rating)

Morehouse College, Computer Science Department, 1998-2000:

- **Teaching Assistant**

Computer Programming II	Fall 2000
Computer Programming I	Fall 1998-Spring 1999

PUBLICATIONS

G. N. Frederickson and B. Wittman. Approximation Algorithms for the Traveling Repairman and Speeding Deliveryman Problems with Unit-Time Windows. In *Approximation, Randomization, and Combinatorial Optimization*, volume 4627 of *LNCS*, pages 119–133. Springer, 2007.

WORK IN PROGRESS

- D. Ernst, B. Wittman, B. Harvey, T. Murphy, M. Wrinn. Preparing Students for Ubiquitous Parallelism. Panel discussion, in submission to SIGCSE 2009.
- G. N. Frederickson and B. Wittman. Approximation Algorithms for the Traveling Repairman and Speeding Deliveryman Problems with Unit-Time Windows. Journal version, in submission to *ACM Transactions on Algorithms*.
- G. N. Frederickson and B. Wittman. Ensemble Analysis for Speedup in the Traveling Repairman Problem with Unit Time Windows. In preparation.
- B. Wittman, A. Mathur, and J. T. Korb. *An Introduction to Programming in Java with Concurrency*. Text book, in preparation.
- G. N. Frederickson and B. Wittman. Ensemble Analysis for Speedup in the Traveling Repairman Problem with Constrained Time Windows. In preparation.

INVITED TALKS

“A Tug of War Between Repairman and Deliveryman.” Department of Mathematics, Statistics, and Computer Science Colloquium, Marquette University. October 2, 2008.

PROFESSIONAL TRAINING

Graduate Teaching Certificate, Center for Instructional Excellence, Purdue University, 2007
Certification program consisting of workshops, classroom observations, student feedback, and personal reflection, designed to improve teaching skills.

PROFESSIONAL ACTIVITIES

Reaching Out for Computer Science

Regular Presenter, Purdue University, 2007-2008

Presentations at high schools throughout Indiana to inform students about computer science, as a recruitment aid.

Advanced Computer Science Summer Camp

Instructor, Purdue University, 2007 and 2008

Four-day summer camp to introduce computer science to bright middle school children.

Linking Math and Computer Science Workshop

Facilitator, Purdue University, 2007 and 2008

Three-day workshop to show high school math teachers how to integrate computer science concepts into their curricula.

Science Bound Program

Mentor, Purdue University, 2007

Internship program to encourage economically disadvantaged high school students to pursue careers in the sciences.

AWARDS AND HONORS

Upsilon Pi Epsilon, Computer Science Honor Society, Member and Tutor
Purdue University, Department of Computer Sciences, 2007

Favorite Graduate TA

Purdue University, Department of Computer Sciences, 2007

Graduate Student Board Travel Grant

Purdue University, Department of Computer Sciences, 2007

Awarded to present a paper at APPROX-RANDOM 2007.

Phi Beta Kappa

Morehouse College, 2001

National Merit Scholar

Thomson Consumer Electronics, 1997

References available upon request.