

Ben Wiedermann

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RESEARCH INTERESTS

Improving programming languages and techniques with formal methods and program analyses.
Integrating programming languages and databases.

EDUCATION

The University of Texas, Austin, TX
PhD in Computer Sciences. Expected graduation: May, 2010. (GPA: 3.92)
Advisor: William Cook

Boston University, Boston, MA
BA in Computer Science, *Magna Cum Laude*. May, 2001. (GPA: 3.87)
Minor: Theatre Arts

RESEARCH ACTIVITY

CONFERENCE PAPERS

B. Wiedermann, A. Ibrahim, and W. R. Cook. Interprocedural Query Extraction for Transparent Persistence. In *Proc. of ACM Conf. on Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*, Nashville, TN, October 2008.

B. Wiedermann and W. R. Cook. Extracting Queries by Static Analysis of Transparent Persistence. In *Proc. of the ACM Conf. on Principles of Programming Languages (POPL)*. Nice, France. January 2007.

S. M. Blackburn, R. Garner, C. Hoffman, A. M. Khan, K. S. McKinley, R. Bentzur A. Diwan, D. Feinberg, D. Frampton, S. Z. Guyer, M. Hirzel, A. Hosking, M. Jump, H. Lee, J. E. B. Moss, A. Phansalkar, D. Stefanovic, T. VanDrunen, D. von Dincklage, and B. Wiedermann. The DaCapo Benchmarks: Java Benchmarking Development and Analysis. *Proc. of ACM Conf. on Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*, Portland, OR, October 2006.

MAGAZINES

S. M. Blackburn, K. S. McKinley, R. Garner, C. Hoffman, A. M. Khan, R. Bentzur A. Diwan, D. Feinberg, D. Frampton, S. Z. Guyer, M. Hirzel, A. Hosking, M. Jump, H. Lee, J. E. B. Moss, A. Phansalkar, D. Stefanovic, T. VanDrunen, D. von Dincklage, and B. Wiedermann. Wake Up and Smell the Coffee: Evaluation Methodology for the 21st Century, *Communications of the ACM, Research Highlights (Invited)*, 51(8) pages 83--89, August, 2008.

BOOKS

H. Deitel, P. Deitel, J. Liperi, and B. Wiedermann. *Python How to Program*. Prentice Hall: Upper Saddle Lake, NJ, 2002.

TECHNICAL REPORTS

B. Hardekopf, B. Wiedermann, W. R. Cook, and C. Lin. A Unifying Framework for Describing the Space of Pointer Analysis Approximations (Extended Version). The University of Texas at Austin, Department of Computer Sciences. Report# TR-08-32. July, 2008.

B. Wiedermann. Know your place: Selectively Executing Statements Based On Context. The University of Texas at Austin, Department of Computer Sciences. Report# TR-07-38. July, 2007.

B. Wiedermann. Quit Copying Me: A Framework for Evaluating Optimal Garbage Collection Costs. The University of Texas at Austin, Department of Computer Sciences. Report# TR-07-39. July, 2007.

S. M. Blackburn, R. Garner, C. Hoffman, A. M. Khan, K. S. McKinley, R. Bentzur A. Diwan, D. Feinberg, D. Frampton, S. Z. Guyer, M. Hirzel, A. Hosking, M. Jump, H. Lee, J. E. B. Moss, A. Phansalkar, D. Stefanovic, T. VanDrunen, D. von Dincklage, and B. Wiedermann. The DaCapo Benchmarks: Java Benchmarking Development and Analysis (Extended Version). ANU Computer Science TR-CS-06-01. October, 2006.

MISCELLANEOUS PUBLICATIONS

H. Deitel, P. Deitel, J. Liperi and B. Wiedermann. *The Complete Python Training Course*. Prentice Hall: Upper Saddle Lake, NJ, 2002.

B. Wiedermann. How to Use the Pumping Theorem. Unpublished lecture notes. October, 2004.

INVITED TALKS

“Extracting Queries by Static Analysis of Transparent Persistence”. Presented at Kansas State University, MIT, Harvard University, Tufts University, and Brown University. August, 2006.

RESEARCH FUNDING

Research Assistant (for William Cook), UT Austin June, 2005 - Present
Integrating programming languages and databases. Query extraction.

Research Assistant (for Kathryn McKinley), UT Austin June, 2003 - August, 2004
Automatic memory management. Garbage collection algorithms. Optimal collection strategies.

TEACHING

Assistant Instructor, CS105 Python, UT Austin Spring 2008, Spring 2009

Teaching Assistant, CS345 Programming Languages with William Cook, UT Austin Spring, 2005

Teaching Assistant, CS341 Automata Theory with Elaine Rich, UT Austin Fall, 2004

Teaching Assistant, CS336 Analysis of Programs with John Werth, UT Austin Spring, 2003

OTHER EMPLOYMENT

Co-founder, No One Way Arts Collaborative, L.L.C., Denver, CO April, 2008 - Present
Manage resources for a project-based arts collaborative. Create and produce plays.

Author, Deitel & Associates, Boston, MA May, 2001 - December, 2002
Co-authored a college-level programming textbook. Contributed to operating systems textbook.

Intern, Deitel & Associates, Boston, MA January, 2000 - May, 2001
Contributed written and audio content to several college-level programming textbooks.

Intern, Sprint, Kansas City, MO June, 1999 - August, 1999
Implemented on-line employee training courses.

SERVICE

External Reviewer: PLDI 07.

Co-Reviewer: ECOOP 09, PLDI 08, OOPSLA 07, CC 07, SIGSOFT 06, OOPSLA 05, ECOOP 05.

Mentor, McNair Scholars Pre-Graduate School Internship. Fall, 2008.

Invited member, Graduate Faculty Recruiting Committee. Spring, 2007.

Elected member, UT Graduate Representative Association of Computer Sciences. 2004-2005.

Volunteer, FirstBytes--a free summer computer camp for female high school students. 2003, 2004.

Co-organizer, Computer Sciences prospective graduate student weekend. April, 2004.

AWARDS & HONORS

UTCS Graduate Professional Development Award. January, 2007 & October, 2008.

Finalist, Microsoft Research Graduate Fellowship Program. November, 2006.

Phi Beta Kappa. May, 2001.

Commencement Speaker, Boston University Dept. of Computer Science. May, 2001.

Dean's List, Boston University. All eligible semesters, 1997-2001.

National Merit Scholar. May, 1997.

REFERENCES

Available upon request.