Michael Siff

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Education

University of Wisconsin-Madison, Ph.D. in Computer Science, Aug. '98.
Advisor: Professor Thomas W. Reps.
Thesis Title: *Techniques for Software Renovation.*

University of Pennsylvania, Sept. '89 – May '93
Degrees received:

- Master of Science and Engineering in Computer and Information Sciences
- Bachelor of Science and Engineering in Computer Science and Engineering
- Bachelor of Arts in Mathematics

Overall G.P.A. 3.8. *Summa Cum Laude.* Dean's List '90, '91, '92, '93.

Current Position

Sarah Lawrence College, 1999–present
Faculty of Computer Science
Chair, Division of Science & Mathematics
Associate Professor, 2004–present
Assistant Professor, 1999–2004

Courses Taught

Algorithms, Compilers, Computer Architecture, Introduction to Computer Programming, Introduction to Computer Science, Cryptology, Databases, Data Structures, Object-Oriented Programming, Robotics, Software Design

Research Interests

Computational number theory, cryptology, theoretical computer science, cellular automata, concept analysis, programming languages, software engineering.

Teaching and Research Experience

Instructor, Center for Talented Youth, Jul. '01 & Jul. '02

Visiting Research Scholar, Wesleyan University, Mar. '00

Research Consultant, Bell Laboratories, Lucent Technologies, Naperville, IL, Jan. '99

Visiting Assistant Professor, Wesleyan University, Aug. '98 – July '99

Lecturer, University of Wisconsin-Madison, Sep. '97 – Dec. '97

Summer Researcher, Bell Laboratories, Lucent Technologies, Naperville, IL, May '97 – Aug. '97

Research Assistant, University of Wisconsin-Madison, Jan. '95 – May '97, Jan. '98 – Jul. '98

Teaching Assistant, University of Wisconsin-Madison, Sep. '94 – Dec. '94

Wisconsin Alumni Research Fellow, University of Wisconsin-Madison, Sep. '93 – Aug. '94

Refereed Publications

Rice, M. and Siff, M. Clusters, concepts, and pseudometrics. *Proceedings First Irish Conference on Mathematical Foundations of Computer Science and Information Technology*, 2001 (Elsevier - Electronic Notes in Theoretical Computer Science).

Siff, M. and Reps, T. Identifying modules via concept analysis. *IEEE Transactions in Software Engineering* 25, 6 (Nov./Dec. 1999), pp. 749-768.

Siff, M., Chandra, S., Ball, T., Kunchithapadam, K., and Reps, T., Coping with type casts in C. *Proceedings of ESEC/FSE '99: Seventh European Software Engineering Conference and Seventh ACM SIGSOFT Symposium on the Foundations of Software Engineering*, Toulouse, France, Sept. 6-10, 1999.

Siff, M. and Reps, T. Identifying modules via concept analysis. In International Conference on Software Maintenance, pages 170–179, Bari, Italy, October 1997.

Siff, M. and Reps, T. Program generalization for software reuse: From C to C++. In *Fourth ACM SIGSOFT Symposium on the Foundations of Software Engineering*, 135-146, San Francisco, October 1996.

Other Publications and Papers

Siff, M. and Plate, L. Primitive roots and Sophie Germain primes. *In preparation.*

Plate, L. and Siff, M. Computational investigations of primitive roots. *In preparation.*

Siff, M., Chandra, S., Ball, T., Kunchithapadam, K., and Reps, T., Coping with type casts in C. Bell Labs. Tech. Rep. BL0113590-990202-03, Lucent Technologies, Inc., Naperville, IL, Feb. 1999.

Siff, M. Techniques for software renovation. Ph.D. dissertation and Tech. Rep. TR-1384, Computer Sciences Department, University of Wisconsin, Madison, WI, Aug. 1998.

Conference Presentations and Invited Talks

Fear and loathing in cyberspace. Alumni Weekend, Sarah Lawrence College, Bronxville, NY, June, 2005.

Why the bible codes are bunk. Science Seminar Series, Sarah Lawrence College, Bronxville, NY, February, 2004.

A brief history of cryptology. Pratt Institute, Brooklyn, NY, October, 2003.

Ambiguity in natural and computer languages. The Language Circle, Sarah Lawrence College, Bronxville, NY, October, 2001.

Cellular automata and the Game of Life. Science Seminar Series, Sarah Lawrence College, Bronxville, NY, October, 1999.

Identifying modules via concept analysis. International Conference on Software Maintenance, Bari, Italy, October, 1997.

Program generalization for software reuse: From C to C++. Fourth ACM SIGSOFT Symposium on the Foundations of Software Engineering, San Francisco, October, 1996.

Using type-inference to generalize C programs. University of Washington, October, 1996.

Techniques for transforming C programs into C++. Bell Laboratories, Lucent Technologies, Naperville, Illinois, August, 1996.

Honors and Awards

Marilyn Simpson Award, Spring '01 (awarded to ten Sarah Lawrence faculty members in support of research and teaching)

Nominated for Outstanding Graduate Teaching Award, University of Wisconsin-Madison, Spring '98 (one of only ten nominees out of two hundred computer science graduate students)

Nominated for Outstanding Graduate Research Award, University of Wisconsin-Madison, Spring '98 (one of only five nominees out of two hundred computer science graduate students)

Wisconsin Alumni Research Foundation Fellow, University of Wisconsin-Madison, Sept. '93 – Aug. '94. (Awarded to only two of forty-seven new computer science graduate students in 1993.)

National Science Foundation Graduate Research Fellowship, honorable mention, '93, '94.

Elected to Phi Beta Kappa honor society, Spring '93

Benjamin Franklin Scholar, University of Pennsylvania, Sept. '89 – May '93. (Less than ten percent of all undergraduates are admitted to the Benjamin Franklin Scholars program.)

Activities

Committee on Technology, Sarah Lawrence College, Spring 2000–present

Committee on Conditions of Teaching, SLC, 2003–2005

Summer Leadership Institute, SLC, 2003, 2005

Budget Committee, SLC, Fall 2001–Spring 2002

Admissions Committee, SLC, Fall 2000–Spring 2001

New Jersey Programming Languages Seminar, 1998–present

Association for Computing Machinery, 2000–present

Institute of Electrical and Electronics Engineers, 2002–present

References

Available upon request.

Citizenship

United States