



Seth D. Bergmann

Associate Professor
Computer Science

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Education:

BS (Physics), Rensselaer Polytechnic Institute
MSE (Computer and Information Sciences), The University of Pennsylvania

Research Expertise:

Compilers | Algorithms | Data Locality | Formal Languages | CS Education

I have conducted research in the following areas:

Data locality in internal sorting algorithms
Simplification of Regular Expressions
Public Key Cryptography
Open Source Textbooks

I have published a textbook on Compiler Design (Wm. C. Brown, publishers). That book has been converted to open source, and is now available on my web site. I am in the process of developing other open source textbooks, in collaboration with other authors.

Honors and Awards:

Visiting Professor at Oberlin College while on sabbatical leave, 1986
Visiting Professor at The University of Auckland while on sabbatical leave, 1987

Member of:

Association for Computing Machines (ACM)
ACM Special Interest Group on Programming Languages (SIGPLAN)
ACM Special Interest Group on Computers and Security (SIGSAC)
ACM Special Interest Group on Computer Science Education (SIGCSE)

Recent Publications:

Bergmann, Seth D (2014) Open Source Textbooks. Publishing Research Quarterly. 30:1.

Bergmann, Seth D (2009) Degenerate Keys for RSA Encryption. ACM SIGCSE Inroads. 41:2.