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## Personal Information

U.S. citizen, born May 10, 1976

## Research Interests

Mathematical logic, theoretical computer science, Kleene algebra, program logic. Secondary interests: epistemic logic, reverse mathematics.

## Education

Amherst College	Mathematics and Computer Science	B.A. <i>summa cum laude</i> , 1998
Cornell University	Mathematics	M.S., 2002
Cornell University	Computer Science	M.S., January 2005
Cornell University	Mathematics	Ph.D., expected August 2005

## Employment

Teaching assistant/instructor, Cornell University, 1999–present

Intern (computer security research), ATC-NY, 2003

Unix systems administrator, The MathWorks, Inc., 1998–1999

## Publications

- C. Hardin and D. Velleman. **The mean value theorem in second order arithmetic**, *Journal of Symbolic Logic* **66** (2001), 1353–1358.
- C. Hardin and D. Kozen. **On the Elimination of Hypotheses in Kleene Algebra with Tests**. Technical Report 2002-1879, Computer Science Department, Cornell University, October 2002.
- C. Hardin and D. Kozen. **On the Complexity of the Horn Theory of REL**. Technical Report 2003-1896, Computer Science Department, Cornell University, May 2003.
- C. Hardin. **How the Location of \* Influences Complexity in Kleene Algebra with Tests**. In F. Baader and A. Voronkov, editors, *Proc. 11th Int. Conf. Logic for Programming, Artificial Intelligence, and Reasoning (LPAR 2004)*, volume 3452 of *Lecture Notes in Artificial Intelligence*, pages 224–239, Montevideo, Uruguay, March 2005. Springer-Verlag.
- C. Hardin. **Proof Theory for Kleene Algebra**. To be presented at LICS 2005.

C. Hardin. **Modularizing the Elimination of  $r = 0$  in Kleene Algebra.** Submitted to Logical Methods in Computer Science.

## Teaching

TA, Math 192 (Calculus for Engineers II)	Fall 1999
TA, Math 294 (Engineering Mathematics—linear algebra and PDEs)	Spring 2000
TA, Math 192 (Calculus for Engineers II)	Fall 2000
TA, Math 222 (Multivariable Calculus)	Spring 2001
TA, Math 192 (Calculus for Engineers II)	Fall 2001
Instructor, Math 191 (Calculus for Engineers)	Fall 2002
TA, Math 106 (Calculus for the Life and Social Sciences)	Spring 2003
Instructor, Math 191 (Calculus for Engineers)	Fall 2003
TA, Math 106 (Calculus for the Life and Social Sciences)	Spring 2004
Instructor, Math 111 (Calculus)	Summer 2004
Czar's assistant (part instructor, part administrative assistant), Math 112 (Calculus II)	Fall 2004
Czar's assistant, Math 112 (Calculus II)	Spring 2005

## Honors and Awards

Eleanor Norton York Award in Mathematics, 2002  
Awarded annually to a Cornell math graduate student.

NSF VIGRE Semester, 2002

Robert H. Breusch Prize in Mathematics, 1998  
Awarded annually to a graduating Amherst student.

Member, Phi Beta Kappa

## Other Activities

Co-organizer, Olivetti Club (math graduate student colloquium), Spring 2004

Secretary, Tompkins County Green Party, 2001–2004

State Committee Member, Green Party of New York State, 2000–2004

President, Cornell United Progressives, 2001