

CHRISTOPHER D. RICHARDS

Department of Computer Science
Princeton University
35 Olden Street
Princeton, NJ 08544
+1 (609) 258-2072
richards@CS.Princeton.EDU

OBJECTIVE

Research position in type systems, programming languages, compilers, or verification.

EDUCATION

Princeton University, Princeton, New Jersey

Ph.D. candidate, Computer Science. Advisor: Andrew Appel

Princeton University, Princeton, New Jersey

M.A., Computer Science, November 2002

Williams College, Williamstown, Massachusetts

B.A., *cum laude*, Computer Science, June 2000. GPA 3.71

EXPERIENCE

Princeton University Secure Internet Programming Project, Fall 2000–Present

Research Assistant. Developing Foundational Proof-Carrying Code, a system for generating and verifying safety proofs for machine-code programs. Developing models and proofs in machine-checked formal logic. Improving type system for machine code. Extending system to CISC/VLIW architectures.

AT&T Research, Summer 2000

Summer Manager. Planned and executed upgrade of `lextools` software package for finite-state linguistic analysis.

Johns Hopkins University Center for Language and Speech Processing, Summer 1999

Researcher. Researched open problems in text normalization at National Science Foundation internship. Advanced state of the art with five others (see *Publications*). Investigated subproblem using regular expression-based and weighted finite-state automaton-based techniques.

PUBLICATIONS

Sproat, R., Black, A., Chen, S., Kumar, S., Ostendorf, M., and Richards, C. Normalization of non-standard words. *Computer Speech & Language*, 15(3):287-333, July 2001.

SKILLS

Languages: ML, Twelf, Java, C/C++ , Perl, Lisp, LaTeX.

Platforms: BSD/Linux/UNIX, Macintosh, Windows.