

Curriculum Vitæ

Christopher League

Yale University Computer Science
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Education

- Ph.D. Computer Science, Yale University, expected May 2002. Adviser: Prof. Zhong Shao
- M.S. Computer Science, University of Maryland College Park, May 1997
- B.S. Computer Science, Johns Hopkins University, May 1995
Graduated with honors and department honors; minored in piano

Research Interests

Programming languages, compilers, and environments; linguistic safety and security mechanisms; type theory, semantics, and software design.

Experience

Research

- 1998–2002 Research Assistant, Yale University
The FLINT project, advised by Prof. Zhong Shao
Investigated the role of *types* in compilers for modern programming languages, especially in the context of secure mobile code.
- 1997 Research Assistant, University of Maryland
The TimeWare project, advised by Prof. Richard Gerber
Studied software specification and analysis, helped implement a hybrid model checker for systems with integer constraints.

Teaching

- 1998–2001 Teaching Fellow, Yale University
Mentored students in office hours, evaluated programming projects, helped develop assignments, and gave periodic guest lectures.
- *Compilers and Interpreters*
 - *Operating Systems*
 - *Functional Programming*
- 1996 Instructor, University of Maryland
Developed a new summer course, *Introduction to Programming in C*, for incoming students in the *Minorities in Engineering* program. I chose the textbook, wrote the syllabus, lectured 7½ hours each week, and created all the projects, exams, and weekly quizzes.

1995–1997 Teaching Assistant, University of Maryland
 Taught two sections per week, helped develop assignments, held office hours, and evaluated student projects.

- *Computer Science I* (Pascal)
- *Programming in C*
- *Organization of Programming Languages*
- *Operating Systems*

1993–1995 Undergraduate Teaching Assistant, Johns Hopkins University
 Led optional weekly review sessions, graded assignments and exams for introductory and intermediate programming courses in C and C++.

Software

- 1999 Intern, Sun Microsystems, Java Software division; Cupertino, CA (summer)
 Developed an experimental extension of the Java Virtual Machine to allow efficient execution of many VM processes simultaneously.
- 1993–1995 Software Developer, Neuristics Corporation; Baltimore, MD (part-time)
 Designed object libraries for various artificial intelligence and statistical analysis techniques.
- 1992–1993 Programmer, AAI Corporation; Baltimore, MD (part-time)
 Wrote and tested communications drivers for a real-time military simulation device. Analyzed engineering process data for a panel commissioned by the U.S. Air Force.

Publications

Journal articles

- 1 Christopher League, Zhong Shao, and Valery Trifonov. *Type-Preserving Compilation of Featherweight Java*. ACM Transactions on Programming Languages and Systems —**to appear**
- 2 Tevfik Bultan, Richard Gerber, and Christopher League. *Verification with Type-Specific Symbolic Representations*. ACM Transactions on Software Engineering and Methodology, 9(1), pages 3–50, January 2000

Peer-reviewed conference and workshop papers

- 3 Christopher League, Zhong Shao, and Valery Trifonov. *Precision in Practice: A Type-Preserving Java Compiler*. ACM Programming Language Design and Implementation (PLDI 2002)
 —**under review**: submitted 16 November 2001
- 4 Christopher League, Valery Trifonov and Zhong Shao. *Functional Java Bytecode*. Workshop on Intermediate Representation Engineering for the Java Virtual Machine (IRE 2001)
- 5 Christopher League, Valery Trifonov and Zhong Shao. *Type-Preserving Compilation of Featherweight Java*. Workshop on Foundations of Object-Oriented Languages (FOOL 2001)
- 6 Christopher League, Zhong Shao, and Valery Trifonov. *Representing Java Classes in a Typed Intermediate Language*. ACM International Conference on Functional Programming (ICFP 1999)

- 7 Zhong Shao, Christopher League, and Stefan Monnier. *Implementing Typed Intermediate Languages*. ACM International Conference on Functional Programming (ICFP 1998)
- 8 Tevfik Bultan, Richard Gerber, and Christopher League. *Verifying Systems with Integer Constraints and Boolean Predicates: A Composite Approach*. ACM International Symposium on Software Testing and Analysis (ISSTA 1998)

Book reviews

- 9 *The Optimal Implementation of Functional Programming Languages* by Andrea Asperti and Stefano Guerrini (Cambridge, 1998). In ACM SIGACT NEWS, 31(2), June 2000
- 10 *Lambda Calculi: A Guide for Computer Scientists* by Chris Hankin (Oxford, 1994). In ACM SIGACT NEWS, 31(1), March 2000
- 11 *Isomorphisms of Types: from Lambda-Calculus to Information Retrieval and Language Design* by Roberto Di Cosmo (Birkhäuser, 1995). In ACM SIGACT NEWS, 28(4), 1997

Awards and Honors

- 1996 Award for Teaching Excellence (University of Maryland)
- 1995 IBM Outstanding Undergraduate Award (Johns Hopkins)
- 1994 Golden Key National Honor Society

Professional Service

Invited reviewer for International Conference on Functional Programming (ICFP) 2001, Java Grande Conference 2000, Programming Language Design and Implementation (PLDI) 1999, and Principles of Programming Languages (POPL) 1997.

Professional Associations

- Association for Computing Machinery (ACM), special interest groups on programming languages (SIGPLAN) and computer science education (SIGCSE)
- IEEE Computer Society

References

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