Curriculum Vitae
Christopher League

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Education

Ph.D.   Computer Science, Yale University, December 2002.

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, software design; computer science education.

Experience

2008–present   Associate Professor, Long Island University.

2002–2008   Assistant Professor, Long Island University.

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.

1998–2001   Teaching Fellow, Yale University.
Mentored students in office hours, evaluated programming projects, helped develop assignments, and gave periodic guest lectures.

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.

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.

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

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.

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++.

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. Something for everyone: AI lab assignments that span learning styles and aptitudes. *Journal of Computing Sciences in Colleges*, 23(5):142–149, May 2008

2. Christopher League and Kenjone Eng. Schema-based compression of XML data with Relax NG. *Journal of Computers*, 2(10):9–17, December 2007

3. Mohammed Ghriga and Christopher League. On the construction of convergent transfer subgraphs in general labeled directed graphs. *Congressus Numerantium*, 186:107–116, 2007

4. Christopher League. Metaocaml server pages: Web publishing as staged computation. *Science of Computer Programming*, 62(1):66–84, 2006

5. Christopher League, Zhong Shao, and Valery Trifonov. Type-preserving compilation of Featherweight Java. *Transactions on Programming Languages and Systems*, 24(2):112–152, March 2002

6. Tevfik Bultan, Richard Gerber, and Christopher League. Composite model-checking: Verification with type-specific symbolic representations. *Transactions on Software Engineering and Methodology*, 9(1):3–50, January 2000

Peer-reviewed conference publications

7. Christopher League and Kenjone Eng. Type-based compression of XML data. In *Data Compression Conference*, pages 273–282. IEEE, March 2007

8. Christopher League and Stefan Monnier. Typed compilation against non-manifest base classes. In *Proc. Workshop on Construction and Analysis of Safe, Secure, and Interoperable Smart Devices (CASSIS)*, volume 3956 of *LNCS*. Springer, April 2006

9. Christopher League, Zhong Shao, and Valery Trifonov. Precision in practice: A type-preserving Java compiler. In *Compiler Construction: 12th International Conference*, volume 2622 of *Lecture Notes in Computer Science*. Springer, April 2003

10. Christopher League, Zhong Shao, and Valery Trifonov. Representing Java classes in a typed intermediate language. In *Proc. Int'l Conf. Functional Programming (ICFP)*, pages 183–196. ACM, 1999

11. Zhong Shao, Christopher League, and Stefan Monnier. Implementing typed intermediate languages. In *Proc. Int'l Conf. Functional Programming*, pages 313–323. ACM, 1998

12. Tevfik Bultan, Richard Gerber, and Christopher League. Verifying systems with integer constraints and boolean predicates: A composite approach. In *Proc. Int'l Symp. on Software Testing and Analysis (ISSTA)*, pages 113–123. ACM, 1998

Book chapters

13. Christopher League, Zhong Shao, and Valery Trifonov. Type-preserving compilation of Featherweight Java. In Jaynarayan H. Lala, editor, *OASIS: Foundations of Intrusion Tolerant Systems*, pages 35–59. IEEE, 2003

Book reviews

14. Christopher League. Review of *The Optimal Implementation of Functional Programming Languages* by Andrea Asperti and Stefano Guerrini. *ACM SIGACT News*, 31(2):6–9, June 2000

15. Christopher League. Review of *Lambda Calculi: A Guide for Computer Scientists* by Chris Hankin. *ACM SIGACT News*, 31(1):8–13, March 2000

16. Christopher League. Review of *Isomorphisms of Types: From Lambda Calculus to Information Retrieval and Language Design* by Roberto Di Cosmo. *ACM SIGACT News*, 28(4):24–27, December 1997

Technical reports, unpublished manuscripts, & works in progress

17. Christopher League. *A Type-Preserving Compiler Infrastructure*. PhD thesis, Yale University, 2002

18. Christopher League, Valery Trifonov, and Zhong Shao. Functional Java bytecode. In *Workshop on Intermediate Representation Engineering for the Java Virtual Machine*, July 2001

19. Christopher League and Zhong Shao. Formal semantics of the FLINT intermediate language. Technical Report 1171, Yale University, 1998

Presentations

1. Modular Module Systems: A Survey
   - 9 Mar 2012. *Northeast Scala Symposium.* Cambridge, MA

2. Futzing with Actors (etc.)
   - 27 Jun 2011. *New York Scala Enthusiasts* (meetup.com). New York, NY

3. Continuations and other Functional Patterns
   - 18 Feb 2011. *Northeast Scala Symposium.* New York, NY

4. Monadologie — Professional Help for Type Anxiety
   - 12 Jul 2010. *New York Scala Enthusiasts* (meetup.com). New York, NY

5. Something for Everyone: AI Lab Assignments that Span Learning Styles and Aptitudes
   - 12 Apr 2008. *Consortium of Computing Sciences in Colleges* (CCSC-NE). Staten Island, NY

6. Type-Based Compression of XML Data
   - 29 Mar 2007. *Data Compression Conference* (DCC). Snowbird, UT

7. On the Construction of Convergent Transfer Subgraphs in General Labeled Directed Graphs
   - 7 Mar 2007. *Southeastern Int'l Conf. on Combinatorics, Graph Theory, and Computation* (CGTC). Boca Raton, FL

8. MetaOCaml Server Pages: Web Publishing as Staged Computation
   - 27 Oct 2005. *New England Programming Languages Seminar* (NEPLS). Providence, RI
   - 16 Sep 2005. *New Jersey Programming Languages Seminar* (NJPLS). Hoboken, NJ
   - 25 Oct 2004. *First MetaOCaml Workshop.* Vancouver, BC

9. Typed Compilation Against Non-Manifest Base Classes
   - 21 Sep 2005. *Computer Science Systems Seminar* (at Yale University). New Haven, CT
   - 26 Jul 2005. *Workshop on Formal Techniques for Java-like Programs* (FTFJP). Glasgow (UK)
   - 8 Mar 2005. *Int'l Workshop on Construction and Analysis of Safe, Secure, and Interoperable Smart Devices* (CASSIS). Nice (France)

10. Typed Compilation of Objects
    - 6 Nov 2003. *Seminar on Certifying Compilation* at Stevens Institute of Technology. Hoboken, NJ

11. Precision in Practice: A Type-Preserving Java Compiler
    - 7 Apr 2003. *Int'l Conf. on Compiler Construction* (CC). Warsaw (Poland)
    - 24 Jun 2002. *Int'l Conf. on Dependable Systems and Networks* (DSN Fast Abstracts session). Bethesda, MD

12. Functional Java Bytecode
    - 24 Jul 2001. *Intermediate Representation Engineering Workshop* (IRE). Orlando, FL

13. Type-Preserving Compilation of Featherweight Java

    - 20 Jan 2001. *Foundations of Object-Oriented Languages Workshop* (FOOL). London (UK)
    - 7 Dec 2000. *New England Programming Languages Seminar* (NEPLS). Providence, RI

14. Implementing Typed Intermediate Languages

    - 29 Sep 1998. *Int'l Conf. on Functional Programming* (ICFP). Baltimore, MD

Awards and Honors

1996 Award for Teaching Excellence (University of Maryland)
1995 IBM Outstanding Undergraduate Award (Johns Hopkins)

Academic Service

2012–present Vice President, Brooklyn Campus Faculty Senate
2012–present Member, Search Committee for Associate Vice President for Online Learning
2009–present Member, Brooklyn Campus Faculty Senate Executive Committee
2008–present Member, Core Seminar Advisory Committee
2002–present Member, Outcomes Assessment Committee of the School of Business
2012 Member, Search Committee for Dean of School of Business
2011–2012 Member, Middle States "Chapter 4" Working Group on Instructional Technology
2009–2012 Member, Web Learning Project Steering Committee
2009–2011 Member, University Assessment Committee
2009–2010 Member, Faculty Review Committee
2008–2010 Co-coordinator, Moodle Pilot Project
2008–2009 Member, Web-Mediated Instruction Task Force
2006–2009 Member, Advisory committee for the Teaching and Learning Initiative (TLI)
2006–2009 Chair, Outcomes Assessment Committee of the School of Business
2007–2008 Member, Middle States Interim Report Committee
2003–2007 Member, Advisory committee for the Writing Across the Curriculum (WAC) program
2002–2004 Member, Academic Computing and Computer Users Committee (ACCUC)

Professional Service

2010 Invited reviewer for ACM *Technical Symposium on Computer Science Education* (SIGCSE)
2010 Invited reviewer for *Software: Practice and Experience* (Wiley)
2010 Invited reviewer for IET *Image Processing*
2010 Invited reviewer for ACM *Transactions on Computing Education* (TOCE)
2009 Reviewer for ACM *Technical Symposium on Computer Science Education* (SIGCSE)
2008 Invited reviewer for ACM *Transactions on Programming Languages and Systems* (TOPLAS)
2008 Invited reviewer for *Programming Language Design and Implementation* (PLDI)
2007 Invited reviewer for *European Symp. on Programming* (ESOP)
2007 Invited reviewer for *National Science Foundation* (NSF)
2006 Invited reviewer for *Information and Computation*
2005 Program committee member for *MetaOCaml Workshop*
2005 Invited reviewer for *European Conf. on Object-Oriented Programming* (ECOOP)
2005 Invited reviewer for *Principles of Programming Languages* (POPL)
2004 Invited reviewer for ACM *Transactions on Programming Languages and Systems* (TOPLAS)
2004 Served on review panel for *National Science Foundation* (NSF)
2004 Invited reviewer for *Int'l Conf. on Functional Programming* (ICFP)
2002 Invited reviewer for *Workshop on Intermediate Representation Engineering* (IRE)
2001 Invited reviewer for *Int'l Conf. on Functional Programming* (ICFP)
2000 Invited reviewer for *Java Grande Conference*
1999 Invited reviewer for *Programming Language Design and Implementation* (PLDI)
1997 Invited reviewer for *Principles of Programming Languages* (POPL)

Professional Associations

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

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