

Kenneth Lorenz Knowles
Santa Cruz, CA
(831) 332 - 2067
<http://cs.ucsc.edu/~kknowles>
kknowles@cs.ucsc.edu

As a programming language specialist with a strong mathematical background, I am familiar with with a wide array of programming languages and paradigms; listed in decreasing order of affinity:

Haskell, Objective Caml, Scheme, Coq, Common Lisp, Isabelle/HOL, Java/C#, LaTeX,
Matlab/Octave/scilab, Perl, C/C++, Transact-SQL, Pascal, Logo, Visual Basic, m4, PHP, ASP

Education:

University of California, Santa Cruz - Currently third year Ph.D. Student in Programming Languages, and two-time Regents Fellow

- Research:
 - ▷ Type Reconstruction for General Refinement Types. With Cormac Flanagan. In *Proceedings of the European Symposium on Programming, 2007 (ESOP'07)*.
 - ▷ SAGE: Hybrid Checking for Expressive Specifications. With Jessica Gronski, Aaron Tomb, Cormac Flanagan, and Stephen Freund. In *Proceedings of the Workshop on Scheme and Functional Programming, 2006 (SFP'06)*.
- Class experience
 - ▷ Foundations of Programming Languages, Types and Programming Languages, Concurrency and Transactional Memory (Fall 2007: Logic in Computer Science)
 - ▷ Machine Learning, Survey of Distributed Systems, Games in Design and Control, Advanced Graph Theory and Algorithms
 - ▷ Group and Ring Theory, Linear Algebra, Module Theory (Fall 2007: Algebraic Topology)
- Misc:
 - ▷ Organizer of Summer 2007 Category Theory Study Group.
 - ▷ Organizer of the Programming Language Reading Group since spring of 2006.

University of Oregon - Attended advanced summer schools on programming languages:

- *2007 Summer School on Language-Based Techniques for Integrating with the External World*
<http://www.cs.uoregon.edu/research/summerschool/summer07/>
- *2006 Summer School on Language-Based Techniques for Concurrent and Distributed Systems*
<http://www.cs.uoregon.edu/research/summerschool/summer06/>

University of California, Berkeley - B.S. in Electrical Engineering and Computer Science with an emphasis in Computer Science Theory (with a final GPA of 3.67), and National Merit Scholar.

- Graduate Class Experience:
 - ▷ Combinatorial Algorithms and Data Structures, Foundations of Parallel Computation, Solid Modelling, Design of Programming Languages

Work Experience:

Cityspan Technologies - Senior Programmer **2000 – 2004**

- Conversion to C#/ASP.Net technology from VBscript/ASP
- XML configuration and caching programming
- Research of new techniques and technologies
- SQL Server 7.0/2000 Database design and administration
- Transact-SQL database programming

References available upon request