

# Curriculum Vitae of Wayne Snyder

## Contact Information

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## Employment

**Associate Professor with Tenure**, Computer Science Department, Boston University, September 1995 - present.

**Chairman of Computer Science Department**, Boston University, September 1997 - August 2000.

**Assistant Professor**, Computer Science Department, September 1987 – August 1995.

## Education

**University of Pennsylvania**, Philadelphia, PA, May 1983--August 1988. Ph.D. in Computer Science, August 1988. Thesis Research: Computational logic and theorem proving, particularly equational logic and unification.

**Tufts University**, Medford, Massachusetts, 1981-1983. M.A. in Classical Languages. Instructor in Latin and Greek.

**Dickinson College**, Carlisle, PA, 1979-1981. B.A. Summa Cum Laude in Latin, Minor in Greek. Phi Beta Kappa.

## Teaching

**Courses taught:** Computer concepts for non-majors (CS 101), Introductory programming and data structures (CS 111, 112, 113), Analysis of algorithms (CS 330), Programming language theory for undergraduates (CS 320) and graduate students (CS 520), Compiler design (CS 525), Systems programming (CS 410), Artificial Intelligence (CS 540), Computer Organization (CS 210), Mathematical foundations for systems (CS 350), Computer Architecture (CS 450), and Networking (CS 555).

**Current interests:** I am currently teaching courses in computer organization and architecture, compiler design, and (in summer term) networking and operating systems. I am also interested in revising and updating our introductory

programming curriculum. I am the recipient of an internal grant for development of multimedia tools for teaching computer architecture and networking.

## Research

My **past research interests** have included

- Resolution theorem proving, particularly in the presence of equality;
- Higher-order logic;
- Unification theory;
- Rewriting systems; and
- Expert Systems.

My **current interests** are in systems, particularly networking.

## List of Ten Selected Publications

- Gallier, J., and W. Snyder, "Complete Sets of Transformations for General E-Unification," *Theoretical Computer Science* **67** (1989) 203 - 260.
- Gallier, J., P. Narendran, D. Plaisted, S. Raatz, and W. Snyder, "Finding Canonical Rewriting Systems Equivalent to a Finite Set of Ground Equations in Polynomial Time," *J. ACM* **40:1** (1993) 1--16.
- Snyder, W., "On the Complexity of Simplification Orderings," *Information Processing Letters* **46** (1993) 257--262.
- Bachmair, L., H. Ganzinger, C. Lynch, and W. Snyder, "Basic Paramodulation," *Information and Computation* **121:2** (1995) 172--192.
- Lynch, C., and W. Snyder, "Redundancy Criteria for Constrained Completion," *Theoretical Computer Science*, **142** (1995) 141--177
- Snyder, W., and J. Schmolze, "Rewrite Semantics for Production Rule Systems: Theory and Applications," *CADE-13, LNAI* **607** (1996) 508--522.
- Schmolze, J., and W. Snyder, "Detecting Redundant Production Rules," *AAAI-97*, (1997).
- Schmolze, J., and W. Snyder, "On the Decidability of Redundancy Testing in Expert Systems," *Workshop on Knowledge-Based Systems, AAAI-97*, (1997).
- Baader, F., and W. Snyder, "Unification Theory," chapter eight of *Handbook of Automated Deduction*, Springer Verlag, Berlin (2001).
- Oliart, A., and W. Snyder, "Fast Algorithms for Uniform Semi-Unification," to appear in *Journal of Symbolic Computation*.

## Personal

Married (to Jane); two children (John Henry and Matthew); hobbies include cooking, homebrewing, Greek and Roman culture, swimming, and martial arts (Nidan in Uechi-Ryu).