

Interests

- Compilers for parallel and emerging computer architectures.
- Compilation for parallel systems with tightly coupled shared memory.
- Interaction between compilers, computer architectures and runtime systems.

Education

- M.S. **Computer Science.** Rice University, Houston, TX. January 2009.
- M.S. **Library and Information Science.** Simmons College, Boston, MA. August 1998.
- B.A. **History.** Brown University, Providence, RI. December 1994.

Publications

- A. Youssefi. *Exploring the Potential for Accelerating Sparse Matrix-Vector Product on a Processing-in-Memory Architecture.* (M.S. thesis) Tech Report TR08-12, Computer Science Department, Rice University. December 2008
- A. Youssefi. *Synchronization and Pipelining on Multicore: Shaping Parallelism for a New Generation of Processors.* Tech Report TR09-8, Computer Science Department, Rice University. November 2009 (written 12/2006)

Employment

- **Summer Intern.** Bureau of National Affairs, Washington, DC. 6/2004 – 8/2004
Developed Smart Tag prototypes using Java, XML, JSP. Redesigned online search page. Created database-management Web page with ColdFusion. Worked on website redesign using CSS.
- **Humanities Reference/Collection Development and Web Applications Librarian.** Fondren Library, Rice University, Houston, TX. 8/2000 – 1/2004
Developed and managed library collections in all formats of materials for subject areas. Provided reference and instruction services. Worked closely with faculty and participated in committees. In 2003 assumed new area of responsibility for development of database-driven Web applications. Published book reviews in *Library Journal* and *Críticas*.

- **Social Sciences Reference Librarian.** M.D. Anderson Library, University of Houston, Houston, TX. 10/1998 – 7/2000
Provided reference and instruction services. Developed library collections in all formats of materials for subject areas and maintained Web resources. Participated in team environment and external professional activities. Published book reviews in *Library Journal*.

Teaching Assistant Courses

- Comp 440: Introduction to Artificial Intelligence Fall 2007
- Comp 202: Principles of Object-Oriented Programming Fall 2006
- Comp 421: Operating Systems and Concurrent Programming Spring 2006, Spring 2007
- Comp 412: Topics in Compiler Construction Fall 2005

Honors and Awards

- Brown Fellowship (GPA-based award) 2006–2007
- Clare Booth Luce Fellowship 2005–2007
- Individual Trailblazer Award, Staff Recognition Program, University of Houston Libraries 4/2000
- Beta Phi Mu, international library and information science honor society 1998–

Experience

- Hardware Simulators: Structural Simulation Toolkit (Sandia National Laboratories); Multifacet GEMS (University of Wisconsin-Madison) built on Virtutech Simics
- Compiler Infrastructures: LLVM, Rice compiler infrastructure
- Languages and Scripts: C, C++, Java, C#, Fortran, ColdFusion, PHP, HTML, XML, SQL, CSS, JSP