

Alexandros Tzannes

4701 Erie St.
College Park, MD 20740
USA

atzannes@gmail.com
Tel: +1 240-421-3584

Research

My research interests are in the area of compiler techniques for parallel architectures. I currently work on compiler techniques for XMTC, a parallel extension of C created for the XMT computer architecture. I have written an XMTC compiler based on the popular open source compiler GCC which has been used to teach a graduate level and a senior level undergraduate course on Parallel Algorithms, as well as a Parallel Programming course to high-school students.

I am currently working on designing and implementing software support for nested parallelism in the XMTC compiler, which incorporates new ideas to reduce overheads and better support fine-grained parallelism.

Education

- **Ph.D in Computer Science** (2004-2009 expected)
University of Maryland, College Park, MD, USA
Cumulative G.P.A.: 4.00/4.00
- **MSc in Computer Science** (2004-2007)
University of Maryland, College Park, MD, USA
Cumulative G.P.A.: 4.00/4.00
Scholarly Paper: Automatic XMTC to Cilk translation
- **BEng and MEng** (1999-2004)
National Technical University of Athens (NTUA), Greece
Cumulative G.P.A.: 9.30/10 (3.72/4.00)
Thesis: Graph Isomorphism and Complexity Classes
Awards: Award for excellent academic performance during the academic year 2002-2003. Awarded by the Greek Engineering Association (<http://www.tee.gr>)

Work/Teaching Experience

- Teaching Assistant at University of Maryland for:
 1. Computer Organization (Fall04, Spring05, Fall05, Spring08)
 2. Graduate Parallel Algorithms (Spring07)
 3. Graduate Computational Linguistics I (Fall07)
- Lab Assistant responsible for Pascal and C programming labs during the academic year 2003-2004 at NTUA, Greece.
- 2 month internship at the Institute of Language and Speech Processing in the summer of 2002 on educational software (<http://www.ilsp.gr>).

Skills

- Languages: Greek (Native), English and French (Fluent), German (Basic)
- Programming Languages: C, Java, OCaml, C++, Prolog, Fortran
- Parallel Programming: MPI, Cilk, OpenMP, XMTC
- Experience extending large open-source projects: GCC, CIL (C Intermediate Language), SableCC.
- Personal Qualities: Hard-Working, Quick Learner, Self-Motivated, Ambitious, Collaborative, Taking Initiatives, Organizing and Leading efforts.
- Other Computer Skills: Linux, Windows, HTML/CSS/Server Side Scripts, scripting (bash, perl, make), SQL