

## Education

- **Georgia Institute of Technology, Atlanta GA** January 2005 - August 2011 (expected)  
*PhD in Computer Science (switch from ECE)* GPA: 3.91/4.0
- **Georgia Institute of Technology, Atlanta GA** August 2004 - December 2005  
*MS in Electrical and Computer Engineering* GPA: 3.9/4.0
- **Ecole Centrale de Lyon, Lyon France** September 2002 - December 2005  
*Diplôme d'ingénieur* With highest honors

## Research Experience

- **Getting around Amdahl's law: novel programming models for multi-cores** Current  
*Prof. Santosh Pande*
  - N-way programming model: Speeding up sequential computations through diversity
  - Explore thread interaction and collaboration models
- **Software Transactional Memories** Current  
*Prof. Santosh Pande*
  - Improve the performance of STMs by leveraging programmer supplied information
- **Streaming polymorphous architecture compiler** January 2005 - May 2006  
*Profs. Krishna Palem and Sudhakar Yalamanchili*
  - Helped build a back-end for the Trimaran compiler to target the streaming and dataflow configurations of Monarch, a reconfigurable streaming processor
  - Developed an Eclipse GUI to allow debugging and cycle-by-cycle visualization of the execution of data-flow programs

## Teaching Experience

- **CS6241: Compiler Design (Prof. Santosh Pande)** Spring 2007  
  - Introduced the Trimaran compiler system and aided students with projects
- **ECE6100: Advanced Computer Architecture (Prof. Krishna Palem)** Spring 2006

## Work Experience

- **Intel Corporation, Champaign, IL** June-August 2010  
*Summer Intern under Robert Knight and Lee Baugh* *Parallel Tools Group*
  - Evaluated how to differentiate application characteristics using PMC on Atom
  - Initial work on power tools for Atom
- **Intel Corporation, Champaign, IL** May-August 2008  
*Summer Intern under Arch Robison* *Threading Building Blocks Project*
  - Studied performance aspects of parallel prefix implementations in TBB and OMP
  - Implemented the Galois model of computation in TBB
- **AtoFina Elf CTL, Pierre Bénite France** June - August 2004  
*Summer Intern* *Distributed Systems - Front Office Team*
  - Led a study on the feasibility of moving workstations from Windows to Linux
  - Successfully setup a Linux workstation based on the study

## Service

- **Graduate Student Council President:** Lead the executive committee of the Georgia Tech College of Computing Graduate Student Council (August 2009-Present)
- **Graduate Student Representative:** Represented the graduate students of the School of Computer Science at Georgia Tech (April 2008-August 2009)

## Skills

- **Programming Languages:** C, C++, Cg, Java, Caml, Python, SQL, PHP, HTML, Bash
- **Optimizing Compilers and Development Environments:** Eclipse, Trimaran, LLVM
- **Platforms:** MacOS X, Linux, UNIX, Windows
- **Languages:** French, English, Spanish (working knowledge)