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# Leif Walsh

I am an undergraduate student at Stony Brook University,  
working on mathematics and computer science.  
I am interested in algebra, geometry, topology, number theory,  
cryptography, algorithms research, and complexity theory.

## Research

Jan 07--May 08 **Homomorphic Signatures for Digital Photographs**, with R. Johnson, M. Lamb.  
Algorithms, Computer Vision, Cryptography, Data Structures

## Employment

Jan 09--present **Filesystems and Storage Lab, Massive Storage Lab**, Stony Brook University, under Erez Zadok and Rick Spillane.

Linux kernel programming, userspace C programming, algorithms analysis, benchmarking

May 08--Aug 08 **Platforms Group**, Google, Mountain View, CA, under Taliver Heath and Chris Sadler.

Python programming and Django/jQuery web development for power management/monitoring

May 07--Aug 07 **Platforms Group**, Google, Mountain View, CA, under Taliver Heath.

C++ and Ruby server programming

## Education

2006--present **Bachelor of Mathematics**, Stony Brook University, Algebra, Knot Theory, Number Theory, Topology.

2006--present **Bachelor of Computer Science**, Stony Brook University, Algorithms, Filesystems and Kernel Development, Security.

Currently: 133 credits, 3.76 GPA; graduating May 2010

## Teaching

Spring 2009 **CSE 376: Advanced Systems Programming in UNIX/C**, Erez Zadok.

Development of highly robust, portable C programs in the UNIX environment

Fall 2008 **CSE 373: Analysis of Algorithms**, George Hart.

Design and analysis of general algorithm and data structure techniques

Fall 2007 **CSE 150: Foundations of Computer Science: Honors**, Rob Johnson.

Discrete math fundamentals: logic, proof, induction, runtime analysis

## Achievements

2008 **1st place**, Greater New York ACM International Collegiate Programming Contest.

2007 **9th place**, Greater New York ACM International Collegiate Programming Contest.

2006 **23rd place**, Greater New York ACM International Collegiate Programming Contest.  
(3rd place in age group)