

CONTACT INFORMATION 8000 Boteler Ln Apt 613B Phone: 804-586-3121
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Objective: Full time position starting after May 2013

EDUCATION **University of Maryland at College Park**, College Park, MD USA Total GPA: 3.666
B.S. Computer Science (Expected Graduation May 2013) In Major GPA: 3.64
B.S. Mathematics (Expected Graduation May 2013) In Major GPA: 3.74

Relevant Classes:

Computer Science: Introduction to Object Oriented Programming II, Discrete Structures, Introduction to Computer Systems, Algorithms, Organization of Programming Languages, Graph Theory and Combinatorics, Computational Systems Biology (Graduate level), Cryptology, Computer Systems Architecture (Fall 2012), Image Processing (Fall 2012)

Mathematics: Linear Algebra, Differential Equations, Calculus 3, Advanced Calculus 1, Advanced Calculus 2, Fractal Geometry and Dynamical Systems, Mathematical Modeling, Numerical Analysis, Topology, Abstract Algebra, Complex Variables, Partial Differential Equations (Fall 2012)

AWARDS **COMAP Highschool and College Mathematical Contest in Modeling**
HiMCM: Regional Outstanding 2007, Honorable Mention 2008, Meritorious 2009
MCM: Meritorious 2009, Meritorious 2010

WORK EXPERIENCE **Math Success, UMD Res Life Math Coach** Fall 2010 - Present (Head Coach as of Fall 2011)
Tutoring University of Maryland students in mathematics courses ranging from Pre-Algebra to Analysis. As Head Coach, overseeing day to day operations, involved in hiring new coaches, resolving conflicts and helping with logistical issues. Also helped oversee implementation of a collaborative study group system.

UCLA RIPS - Hong Kong Undergraduate Researcher Summer 2012
Developed **CNVripper**, a program to detect copy-number variant regions across two populations, using only next-generation sequencing data. The project was developed in conjunction with **BGI-Shenzhen**, with the specific goal of determining candidate genes for cadmium adaptation in a specific population of *Daphnia pulex*. Programming was done in Perl and R.

North Carolina State University REU Undergraduate Researcher Summer 2011
Developed **SPASM** (Stochastic Particle Approach for Simulating Morphogenesis), a tool to help visualize cell movements and interactions. Development primarily done in MATLAB and Java. Researched the motivations behind cell movements as well as ways to maximize efficiency for simulation purposes. Project presented at NIMBioS conference (2011) and at the Joint Mathematicians Meeting's Undergraduate Poster Session (2012).

Center for Bioinformatics and Computational Biology at UMD Intern Summer 2010
Contributed towards development of **Coral**, a program used to visually compare different clustering algorithms. Worked primarily on matrix reordering algorithms, used to uncover underlying block structure of a co-occurrence matrix. Developed primarily in Java. Project presented at ISMB 2012 Poster Session by Darya Filippova. Paper currently under review.

WMUC-FM College Park 88.1 DJ Fall 2011 - Present
Cohost of *Rice Comes in Brown and White*, a music show that airs once weekly.

TALKS **Aashish Gadani, Michael F. DeWitt, Nolan Skochdopole, "Watts" the Deal with American Telephones?**, MAA MD-DC-VA Section Spring 2009 Meeting

Aashish Gadani, Elizabeth Cangialosi, A Statistical Model to Detect Copy Number Variation, SUMS at JMU September 2012

LARGE PROJECTS **MeeshQuest** Developed in Java Spring 2011
Developed a MapQuest clone in Java as a project for CMSC420, Data Structures. The focus was on implementing various data structures including PR Quadrees, PM quadrees, FSTries, B+ trees and B* trees, as well as parsing and outputting XML files.

STRENGTHS

Programming and Markup Languages Used in a academic, professional, or creative setting:

Java, MATLAB, L^AT_EX, R, C, Ruby, OCAML, Assembly (y86), Perl, C++, XML, Processing, Supercollider

Software and Operating Systems I can use proficiently:

MATLAB, Microsoft Office, Windows, MacOS, Linux