

## **CAREER OBJECTIVE**

Employment in the field of software engineering that builds on my knowledge of programming and computer applications and strong competencies in data structures, algorithms and design.

## **WORK EXPERIENCE**

**University of Alabama at Birmingham, Neurology Department** May 2015 - present

*Research Assistant / Consultant* — Reviewed and evaluated data entry and storage options for a new research project. Facilitate migration of existing analytical pipelines to new servers. Perform statistical analysis and quality control on existing data. Provide support and resolve technical issues. Interface with the team to incorporate their innovations and vice versa.

**Wadsworth Center, New York State Department of Health** August 2012 – August 2014

*Programming Research Specialist I* – Work with team to identify analytic goals, brainstorm techniques to evaluate terabyte magnitude datasets, and implement the ideas by writing optimized scripts which automate the process of performing analysis. Quality control testing to ensure the integrity of the input datasets and corresponding results.

**Wadsworth Center, New York State Department of Health** Summer 2012

*Research Assistant*- Optimizing and streamlining existing scripts and creation of new scripts used for formatting genotyped and imputed data gathered from Parkinson's disease patients and controls for performing genome-wide association studies.

**Summer Research Institute, Bard College** 2011

*Research Assistant* - Software development and data collection on the project “WordNet-Based Lexical Simplification of a Document” with Dr. S. Rebecca Thomas and Dr. Sven Anderson.

## **EDUCATION**

Bard College, Annandale-on-Hudson, NY

B. A. Computer Science and Photography, 2012 (C.S. courses GPA: 3.70)

Northeastern University, Boston, MA

Courses in Foundations of Artificial Intelligence, Advance Algorithms

## **TECHNICAL SKILLS**

**Proficient** - Currently Using

Java, JavaScript, Python, PHP, MySQL, R, Bash

**Sufficient**

C++, Django, HTML/CSS

**Knowledge of**

Mathematica, LaTeX

**Operating Systems**

Linux, Mac OS X, Windows

## **PUBLICATIONS**

**Presented Poster:** “Identification and Replication of a Novel Susceptibility Locus for Parkinson's Disease that Is Associated Exclusively with Sporadic PD”, AD/PD Conference, Florence, Italy 2013

**Submitted to Publisher (2<sup>nd</sup> Author):** “Conditional Genome-Wide Association Study, Controlling for alpha-Synuclein (SNCA), Reveals a Novel Association between Parkinson's Disease (PD) and the CCSE1 Gene”, Human Molecular Genetics”, 2013

**Submitted to Publisher (1<sup>st</sup> Author):** “Investigation of classical human leukocyte antigens (HLA) and expression quantitative trait loci (eQTL) within the HLA region in association with Parkinson's Disease”, Nature Genetics, 2013

## **PROJECTS:**

**Multitouch Table:** My group of three built a multitouch table from scratch as a final project for our Computational Image class and demoed a game inspired by the iPhone game Osmosis to test its functionality.

**Senior Thesis:** “*Semi-Automated Creation of Cinemagraphs for the Exhibition Still Moving.*” Creation of semi-animated photographs generated from an Xbox Kinect RGB and depth image stream. In other words, animated GIFs with selective objects animated or held still.