

# Merlin Levine

Email: merlinlevine@gmail.com  
Phone: 828-713-6273  
Website: merlinlevine.github.io  
LinkedIn: linkedin.com/in/merlinlevine  
Github: github.com/merlinlevine

## EDUCATION

### University of Maryland

College Park, MD | Exp. Dec. 2017

B.S. Computer Science | GPA: 3.67

### University of North Carolina

Chapel Hill, NC | May 2013

B.S. Biology, Second Major in Chemistry

## SKILLS

### Programming Languages

**Proficient:** Java, JavaScript, HTML, CSS, Python

**Familiar:** C, PHP, SQL, R, Ruby, OCaml, LaTeX, Y86

### Technologies

MS Office Suite, Git, SourceTree, XAMPP, Akka, Hadoop, Unix

## COURSEWORK

### Upper Level CS Electives

Data Structures<sup>+</sup>

Human Computer Interaction<sup>+</sup>

Computer and Network Security<sup>+</sup>

Algorithm Design and Analysis

Multithreading and Concurrency

Web Development

Data Science

+ current

## PUBLICATIONS

Deficient sleep in mouse models of fragile X syndrome. *Front Mol Neurosci.* **2017**

BIRC6 mediates imatinib resistance independently of Mcl-1. *pOne.* **2017**

Behavioral phenotype of *Fmr1* knockout mice during active phase in an altered light dark cycle. *eNeuro.* **2016**

Chronic sleep restriction during development can lead to long-lasting behavioral effects. *Psychol Behav.* **2015**

## EXPERIENCE

### Microstrategy – Software Engineering Intern

Tysons, VA | May 2017 – Aug. 2017

- Designed and implemented new interactive layout features for the grid (table) visualization using JavaScript and internal toolkits which will be included in the next major product release
- Created an in-depth workflow and documentation guide for the grid
- Presented new features to senior executives

### The MITRE Corporation – Software Engineering Intern

McLean, VA | June 2016 – Feb. 2017

- Designed and implemented a software application to assess the safety and airworthiness of small unmanned aircraft systems (commercial drones) in Java/Java Swing and help streamline the approval process of commercial drone operations over people
- Conducted a clustering analysis of U.S. population density data in R to increase the fidelity of the drone airworthiness model
- Wrote Python scripts for fast prototyping of flight physics engine
- Presented risk analysis findings to a panel of government research organizations

### University of Maryland – Research Assistant

College Park, MD | Oct. 2015 – Present

- Collects, analyzes, and reports data for the University of Maryland's Graduation Survey and departmental and campus-wide career fairs using R and MS Office
- Works on streamlining the data collection process of the survey

### National Institutes of Health – Postbac IRTA Fellow

Bethesda, MD | Sept. 2013 – Aug. 2015

- Performed behavioral, physiological, and histological experiments on rodent models to study the role of sleep in autism-associated disorders
- Analyzed data with MS Excel, Python, and SPSS
- Presented findings at lab meetings and national conferences

## PROJECTS

### Wine and Cheese Website (JavaScript, PHP, MySQL, AJAX, HTML, CSS)

- A website that lets users search for, review, and rate wine and cheese pairings for a group project
- Oversaw the wine and cheese pairing info page which displays images, descriptions, ratings, and reviews from a database

### Distributed Resource Management System (Java, Akka)

- A simulation of computing nodes (actors), each with a collection of local resources, that communicate with each other via message passing
- Includes functionality for concurrent-read, exclusive-write, blocking and non-blocking requests