Merlin Levine

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Washington, D.C. Metro Area

EDUCATION

University of Maryland

B.S. Computer Science | **GPA:** 3.75

Expected Dec. 2017

University of North Carolina

B.S. Biology, Second Major in Chemistry
President of INSPIRE: STEM tutors

May 2013

COURSEWORK

Algorithm Design and Analysis[+]
Multithreading and Concurrency[+]
Web Development[+]
Organization of Programming Languages
Introduction to Data Science
Computer Systems
Object-Oriented Programming
Discrete Structures
Linear Algebra
Applied Probability and Statistics
+ current coursework

SKILLS

Proficient

Java | Python | C

Familiar

R | Ruby | OCaml | LaTeX | Y86

Learning

JavaScript | PHP | HTML | CSS | MySQL

PUBLICATIONS

Sare RM, **Levine M**, et al. Sleep abnormalities in mouse models of fragile X syndrome. Submitted for Publication. 2016.

Sare RM[*], **Levine M**[*], et al. Behavioral phenotype of *Fmr1* knockout mice during active phase in an altered light dark cycle. *eNeuro*. 2016; 3(2). ([*]co-first authors)

Sare RM, **Levine M**, et al. Chronic sleep restriction during development can lead to long-lasting behavioral effects. *Psychol Behav.* 2015; 155: 208-217.

LINKS

LinkedIn: in/merlinlevine
Github: merlinlevine

EXPERIENCE

The MITRE Corporation – Software Engineering Intern

McLean, VA | June 2016 – Feb. 2017

- Created an internal software application to model the safety and airworthiness of small unmanned aircraft systems using Java and the Java Swing API.
- Conducted an analysis of U.S. population density data in R.
- Wrote Python scripts for fast prototyping of physics engine.
- Presented risk analysis findings to a panel of government research organizations.

University of Maryland – Research Assistant

College Park, MD | Oct. 2016 – Present

- Collect, analyze, and report data for the University of Maryland's Graduation Survey and for departmental and campus-wide career fairs using R and MS Office.
- Work 20 hours per week while attending classes.

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 disorders associated with autism.
- Analyzed data with MS Excel, Python, and SPSS.

PROJECTS

WordNet® Graph (Ruby)

- A directed acyclic graph with a multiple-hash implementation to store information from the WordNet® lexical database.
- Methods to traverse the graph, find shortest ancestral paths, and detect word outcasts are included in the implementation.

Bag (C)

- A custom multiset implementation using a hash table that handles collisions with binary search trees.
- The BST structure allows for accessing elements in O(lgn) time compared to O(n) time for linked lists.

Minimum Snippet (Java)

- An application that returns the shortest subsequence from a document of strings containing all specified search terms in O(n) time using parallel ArrayLists.

Rice Rocks Game (Python)

- A 2D space-shooter game incorporating object-oriented design and event-driven programming.