



Amelia L. Brown

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Skills Summary

Python + Java Programmer – fluent, versatile, creative

Adept at quickly picking up new tools and techniques

Image Processing, Data Analysis, and Objected-Oriented Programming Experience

Other languages/skills: Fiji, excel, regex

Exposure to C++, Matlab, and git, html, css, svg

Strong presentation and communication skills, team player

Experience

Memorial Sloan Kettering Cancer Center

2017-2020, Programmer and Lab Assistant Intern

Image processing and data analysis at a developmental biology [lab directed by Dr. Mary Baylies](#) that uses drosophila (fruit flies) as a model organism to study muscle development. Duties included interacting with scientists directly to identify and define automation requirements and quantification needs, continuous communication with scientists throughout development, automation of simple image processing and quantification using Fiji, statistical and volumetric calculations for microscope image stacks, coordination and collaboration on a Matlab project tracking cells in a dish and subsequent processing, analysis and visualization of produced data.

Flatiron Institue

Spring 2020, Associate Research Analyst

Visualization of 3D microscope data using augmented reality

Publications

[S. Windner, A. Manhart, A. Brown, A. Mogilner, M Baylies, "Nuclear Scaling is Coordinated among Individual Nuclei in Multi-nucleated Muscle Fibers" Developmental Cell, Vol 49, Issue 1, p48-62, April 8, 2019.](#)

Code

General python utilities package I made for my own use: <http://github.com/in-tension/brutils>

Education

SUNY Potsdam Freshman 2017-2018

Pleasantville High School 2016