

EDUCATION

Masters of Science (MS), Bioinformatics, ongoing

Brandeis University, Waltham, MA

Bachelor of Science (B.S.), Biomedical Engineering, graduated October 2012

Worcester Polytechnic Institute, Worcester, MA

PERSONAL PROJECTS

How are my stocks doing today?

<http://rpazyaquian.herokuapp.com/stocks>

- Stock symbol lookup and chart renderer on Heroku.
- Offers tabbed charts, search bar, and a set of technical indicators.
- Made in Flask, with charting supplied by Bokeh.

WORK EXPERIENCE

Summer Intern, Imaging Core Technician, May 2011 – August 2011

UMass Medical Center – MicroCT Imaging Core, Worcester, MA

- Performed μ CT scanning and post-scanning image analysis of CT sections.
- Executed non-destructive qualitative analysis of small animal bones for use in transgenic and knock-out mouse studies.
- Wrote semi-automated MATLAB script to aid with quantification of osteoclasts in histological slides.
- Created 16-bit color scheme with OsiriX to differentiate between low density bone, high density bone, and soft tissue, for use in any set of DICOM files.

ACADEMIC PROJECTS

Major Qualifying Project: Re-design of Skin Graft Culturing Device, August 2011 – May 2012

Development of Cell Image Analysis System

- Redesigned a research skin graft culturing device with the objective of improving the assembly/disassembly features and to maximize ease-of-use and time-efficiency.
- Reduced disassembly time of culturing device by over 400%.
- Developed a cell image analysis system for skin graft immunohistochemical sections using MATLAB and CellProfiler software.

TECHNICAL SKILLS

- Software and Programming: Python, Django, Flask, HTML, CSS.
- Foreign Languages: Spanish (native fluency)