

Vivek Ramanujan

<http://ramanv.me>

vivek_ramanujan@brown.edu | ramanv@cs.uw.edu | 253.495.2766

EDUCATION

BROWN UNIVERSITY

Sc. B IN COMPUTER SCIENCE | AB

ASTROPHYSICS

Expected May 2018 | Providence RI

AI Focus

UNIVERSITY OF WASHINGTON - SEATTLE

BS IN COMPUTER SCIENCE

2014-2015

CSE Department, Dean's List (All)

Major GPA: 3.95 / 4.0

THOMAS JEFFERSON HS

Grad. July 2014 | Federal Way, WA

GPA 4.0/4.0

SKILLS

PROGRAMMING

Experienced:

Python • Haskell • Java • \LaTeX

Intermediate:

Lua + Torch • MATLAB • C • C++ • Shell

Basic:

Android • Processing • Arduino •

Assembly

COURSEWORK

UNDERGRADUATE

Intro to CS I and II

Hardware Software Interface (C and Assembly)

Theory of Computing

Unix Tools and Scripting

Programming Languages

CURRENTLY TAKING

Computer Vision

Artificial Intelligence Applications

Cryptography

Analysis of Algorithms

LINKS

Github:// [RamanvProjects](#)

Personal:// [vivekr.me](#)

LinkedIn:// [Vivek Ramanujan](#)

INTERESTS

Cycling • Machine Learning • Tennis •

Chess • Star Gazing

RESEARCH & CLUBS

HCR LAB | HUMAN CENTERED ROBOTICS LAB RESEARCH INTERN

Sep 2014 - Present | Seattle, WA

- Worked with the PR2 robot to develop computer vision algorithms. Included use of Canny Edge Detection and OpenCV to create efficient facial detection and recognition applications.

UBICOMP LAB | UBIQUITOUS COMPUTING LAB HIGH SCHOOL INTERN

May 2013 - Sep 2013 | Seattle, WA

- Implemented Deep Neural Networks for data analysis purposes.
- Worked on project to use machine learning techniques (including Naive Bayesian Classifiers) to analyze skin patches

MOTION AND CONTROL SYSTEMS LAB | UNDERGRAD RESEARCHER

May 2015 - Present | Seattle, WA

- Utilized a Myo and Machine Learning algorithms to track muscle actuation with which to translate to a remotely controlled robotic arm.

ROBOTICS CLUB | PROGRAMMING

Sep 2014 - Mid 2015

- Worked to on the programming team for Robotics to prepare a robot for a competition in May 2015. Utilized mostly C and C++ with Arduino

PROJECTS

WIKIPEDIA NETWORK | DATA-MINING WIKIPEDIA AS A GRAPH

Jan 2015 - Present | Seattle, WA

- Utilized python and NLTK (Natural Language Toolkit) to generate a graph of Wikipedia, allowing weights for connections between important articles using the PageRank algorithm and A* heuristics.
- Allows one to search for information quickly and find highly related article

LIFE SOUP | ARTIFICIAL NEURAL NETWORKS IN ANALOGUE SYSTEMS

Oct 2013 - Present | Seattle, WA

- Used Artificial Neural Networks in a highly analogue life simulation to show natural speciation (specialization) of optimal strategies.
- Created a classification algorithm that utilized a Naive Bayesian Classifier and the HyperNEAT algorithm which would produce optimal results faster than normal RNNs.

AWARDS

| | | |
|------|--------|---------------------------------|
| 2013 | top 4 | Nationals, Logic and Set theory |
| 2014 | top 15 | Nationals, Discrete Mathematics |
| 2014 | top 15 | Nationals, Computer Science |

SOCIETIES & LEADERSHIP

| | | |
|----------------|----------|---|
| 2014 - Present | College | Dean's List |
| 2015 - Present | National | The Society for Collegiate Leadership & Achievement |
| 2015 - Present | National | National Society of Collegiate Scholars |
| 2014 - Present | College | Engineers without Borders |
| 2012 - Present | National | UNICEF |

