Gabriel Passamani Andrade

2895 E. College Ave. Unit 29, Boulder, CO
gabriel.andrade@colorado.edu - (720) 827-2273

Education

University of Colorado Boulder — Fall 2018 - Present
Ph.D. in Computer Science (Expected 2023)
GPA : TBD

University of Massachusetts Amherst — Fall 2016 - Spring 2018
M.S. in Applied Mathematics
Emphasis on Applications in Computer Science
GPA : 3.710

University of Massachusetts Amherst — Fall 2012 - Spring 2016
B.S. in Mathematics
Concentration in Pure Mathematics
Minor in Philosophy
Graduated Cum Laude
GPA : 3.675

Research Experience

Biologically Inspired Neural and Dynamical Systems Lab — Spring 2017 - Summer 2018
Hierarchical Network Structure and Dynamics Motivated by Brains
Adviser: Professor Robert Kozma

University of Massachusetts Amherst-Yearly MS Project — Fall 2017 - Spring 2018
Recurrent Systems for EMG-based Hand Gesture Recognition
Adviser: Professor Qian-Yong Chen

University of Massachusetts Amherst-Yearly MS Project — Fall 2016 - Spring 2017
Deep Neural Networks for Classifying Breast Masses From Mammograms
Adviser: Professor Nathaniel Whitaker

Mathematical Sciences Research Institute-Undergraduate Program — Summer 2015
A Matroid Generalization of Sperner's Lemma
Advisers: Professor Francis Su & Dr. Mutiara Sondjaja

University of Massachusetts Amherst - REU — Summer 2014
Numerical Methods for Computing Eigenvalues and Eigenvectors of Square Matrices
Adviser: Professor Nathaniel Whitaker

Relevant Work Experience

Teaching Assistant - Starting Computing (Computer Science 1) — Fall 2018 - Present
University of Colorado Boulder Department of Computer Science

Research Assistant — Summer 2017 - Summer 2018
Biologically Inspired Neural & Dynamical Systems Lab at UMass Amherst

Graduate System Administrator and IT assistant — Fall 2016 - Spring 2018
University of Massachusetts Department of Mathematics and Statistics

Peer Undergraduate Adviser — Fall 2015
University of Massachusetts Department of Mathematics and Statistics

Teaching Assistant - Calculus I & II for Life and Social Sciences — Fall 2014
University of Massachusetts Department of Mathematics and Statistics

Programming Languages & Operating Systems

Python, C, Bash, Java, Matlab, HTML, x86 assembly, and PDDL

Multiple Linux Distributions, OS X, and Windows

Service and Leadership

Graduate Researchers in Data (GRiD) — Summer 2017 - Spring 2018
Co-Chair of Operations
-Organize and Host workshops, talks, and Hackathons
-Help manage funds and secure assets for the organization

University of Massachusetts Provost Undergraduate Research Fellowship — Fall 2015 - Spring 2016
Mentor
-Helped guide the fellowship recipient in their research, class choices, etc.
-Chosen among senior undergraduates to represent the Mathematics Department

University of Massachusetts Outing Club — Spring 2013 - Spring 2016
Hiking Leader
-Organized and led hikes throughout New England
-Received multiple certifications related to wilderness survival and first aide

Awards, Honors, Grants

Outstanding Academic Achievement Award in Mathematics & Statistics — Spring 2016

Dean's List Six Semesters

Louis Stokes Alliances for Minority Participation (LSAMP) Scholar

Select Presentations

DARPA Site Visit, Amherst, MA — May 10th 2016

AMS/MAA Joint Mathematics Meeting (JMM), Seattle, WA — January 8th 2016

NSF SFS Site Visit, Amherst, MA — November 12th 2015

SACNAS National Conference, National Park, MD	October 29th 2015
MSRI-UP Final Talk, Berkeley, CA	July 24th 2015
REU Mini-Conference, New Haven, CT	July 25th 2014

Relevant Graduate Level Coursework

Information Theory (CS 650);Artificial Neural Network Dynamics Independent Study (CS 696); Artificial Intelligence (CS 683); Advanced Algorithms (CS 611); Numerical Analysis (Math 651); Cybersecurity Lecture Series (Math 591CF); Mathematical Statistics I & II (Stats 607 & 608); Dynamics, ODEs & PDEs (Math 532H & 534H); Real Analysis (Math 523H)

Misc. Skills

Fluent in English and Portuguese