

Gabriel Passamani Andrade

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Education

University of Massachusetts Amherst
Master of Science in Applied Mathematics
Emphasis on Applications in Computer Science
GPA : 3.678

Fall 2016 - Spring 2018

University of Massachusetts Amherst
Bachelor of Science in Mathematics
Concentration in Pure Mathematics
Minor in Philosophy
Graduated Cum Laude
GPA : 3.675

Fall 2012 - Spring 2016

Research Experience

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

Fall 2017 - Present

Biologically Inspired Neural and Dynamical Systems Lab
Hierarchical Network Structure and Dynamics Motivated by Brains
Adviser: Professor Robert Kozma

Spring 2017 - Present

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

Fall 2016 - Spring 2017

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

Summer 2015

University of Massachusetts Amherst - REU
Numerical Methods for Eigenvalue and Eigenvector Computation of Square Matrices
Adviser: Professor Nathaniel Whitaker

Summer 2014

LSAMP COSEE-TEK Research Project
Thermo-Photo-Saline Sensor Buoy Design and Construction

Spring 2014

Relevant Work Experience

Research Assistant Biologically Inspired Neural & Dynamical Systems Lab at UMass Amherst	Summer 2017 - Present
Graduate System Administrator and IT assistant University of Massachusetts Department of Mathematics and Statistics	Fall 2016 - Present
Peer Undergraduate Adviser University of Massachusetts Department of Mathematics and Statistics	Fall 2015
Teaching Assistant - Calculus I & II for Life and Social Sciences University of Massachusetts Department of Mathematics and Statistics	Fall 2014

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) <i>Co-Chair of Operations</i> -Organize and Host workshops, talks, and Hackathons -Help manage funds and secure assets for the organization	Summer 2017 - Present
University of Massachusetts Provost Undergraduate Research Fellowship <i>Mentor</i> -Helped guide the fellowship recipient in their research, class choices, etc. -Chosen among senior undergraduates to represent the Mathematics Department	Fall 2015 - Spring 2016
University of Massachusetts Outing Club <i>Hiking Leader</i> -Organized and led hikes throughout New England -Received multiple certifications related to wilderness survival and first aide	Spring 2013 - Spring 2016

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); Formal Language Theory (CS 501); 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