

Gabriel Passamani Andrade

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) University of Colorado Boulder Department of Computer Science	Fall 2018 - Present
Research Assistant Biologically Inspired Neural & Dynamical Systems Lab at UMass Amherst	Summer 2017 - Summer 2018
Graduate System Administrator and IT assistant University of Massachusetts Department of Mathematics and Statistics	Fall 2016 - Spring 2018
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 - Spring 2018
ASA DataFest <i>Consultant</i> -Advised participants needing help with their project	Spring 2017 & 2018
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 Dean's List Six Semesters Louis Stokes Alliances for Minority Participation (LSAMP) Scholar	Spring 2016
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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