

ADRIAN CELAYA

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EDUCATION

Rice University

B.A. Computational and Applied Mathematics

Overall GPA: 3.70, Major GPA: 3.75

May 2016

Houston, TX

RESEARCH INTERESTS

Optimization, numerical linear algebra, scientific computing, machine learning, and image segmentation

PROFESSIONAL EXPERIENCE

Research Intern

MD Anderson Cancer Center, Advisor: David Fuentes

Sept. 2020 - Present

Houston, TX

- Current research draws from areas such as optimization, image analysis, and machine learning to develop computational tools for cancer treatment

Information System Security Manager

U.S. Navy, USS Carl Vinson

Aug. 2016 - Aug. 2020

San Diego, CA

- Led a team of 9 highly talented cybersecurity analysts who oversaw the security and integrity of a \$20,000,000 computer network consisting of roughly 4,000 assets with zero intrusions or major incidents
- Implemented a comprehensive network security program that resulted in the organization's highest ever cybersecurity score when evaluated by external security auditors
- Received extensive training on computer and communication networks, cryptographic key management, and computer network defense
- Security clearance - Top Secret (TS)/Sensitive Compartmented Information (SCI)

Tutor

Mathnasium

Jun. 2013 - Aug. 2013

Boerne, TX

- Assembled and carried out regular lesson plans for students ranging in age from 2nd to 12th grade
- Communicated a wide range of mathematical concepts to students of all ages

Lab Assistant

Rice University, Introduction To Engineering Computation

Jan. 2013 - May 2013

Houston, TX

- Assisted students with their weekly projects
- Had an active role in teaching students the fundamentals of Matlab
- Engaged directly with faculty in meetings concerning student feedback and the improvement of the course

PRESENTATIONS

Gates, E., **Celaya, A.**, Schellingerhout, D., and Fuentes, D., Automated Cerebrospinal Fluid ROI Selection on Brain Magnetic Resonance Images. Poster. Keck annual conference, virtual, October 2020.

AWARDS AND HONORS

Navy Marine Corps Commendation Medal	Aug. 2020
U.S. Navy	San Diego, CA

President's Honor Roll	May 2016
Rice University	Houston, TX

SKILLS

Languages Spoken: English (native), Spanish (conversant)

Programming Languages and Software: Matlab, Python, C/C++, R, Tensorflow, Keras, Julia, L^AT_EX