David Abuín Eichinger

GRADUATE STUDENT

Research Interests

- I am interested in building autonomous machines that can adapt and coordinate with others to assist in caretaking and natural exploration.

Education

M.S.	**George Mason University** Computer Science – Machine Learning Concentration	2024 - current
Certificate	**George Mason University** Computer Science, Post-baccalaureate Certificate	2017-2023
B.S.	**North Carolina State University** Microbiology Minors in Biotechnology and Genetics *Graduated Summa Cum Laude*	2009-2013
B.S.	**United States Merchant Marine Academy** Maritime Transportation	2002-2006
A.A.	**Marion Military Institute** Military Science and General Studies	2000-2002

Honors and Awards

Feb 2022	**Joint Service Commendation Medal** Exceptionally meritorious service as Strategy Plans & Strategic Sealift Planner, Knowledge Management Group, Joint Planning Support Element, Joint Enabling Capabilities Command, Norfolk, Virginia from February 2017 to December 2021
Aug 2016	**Navy and Marine Corps Achievement Medal** For service as Laser Weapon System Officer-in-Charge in USS Ponce from September 2015 – August 2016.
May 2009	**Letter of Appreciation** From Master of USNS Big Horn for professionalism and ability to perform with skill under pressure during successful combating of an out-of-control class Alpha fire on board USNS Big Horn.

Research experience

2013-2014	**University of Colorado Anschutz Medical Campus** Aurora, Colorado Lab of Dr. Chad Pearson Conducted experiments to understand centriole structure and assembly in single cell organism, *Tetrahymena thermophila*.
2012-2013	**North Carolina State University** Raleigh, North Carolina Lab of Dr. Mike Pearson Honors project to understand how VDJ recombination is affected in mice when subjected to DNA damage.
2012	**Duke University** Durham, North Carolina Summer Research Opportunity Program Lab of Dr. Daniel Lew

- Created several strains of *Saccharomyces cerevisiae* to understand rate of CDC42 polarization.

Professional Experience

2006-2023

United States Navy
Lieutenant Commander
- Knowledge Management Specialist
- Joint Operational Planner
- Strategic Sealift Officer (1665)
- Information Professional Officer (1825 - Interim)
- TS-SCI clearance
- Honorably discharged.

2016-2019

National Geospatial Intelligence Agency
Maritime Analyst, Maritime Safety Office
- Writer for several world-wide regions of the publication, *Sailing Directions*

2013-2014

University of Colorado Anschutz Medical Campus
Professional Research Assistant, Dr. Chad Pearson's Lab
- Managed laboratory equipment and supplies.
- Maintained laboratory compliance with hazardous waste and safety.

2007-2009

Military Sealift Command
Third Officer, USNS Big Horn
- Bridge officer on board a US government tanker that delivered fuel and supplies to ships at sea.
- Trained new personnel in navigation, ship-handling, and firefighting.

Publications

2015

Biology Open
Galati DF, Abuin DS, Tauber GA, Pham AT, and Pearson CG. *Automated image analysis reveals the dynamic 3-dimensional organization of multi-ciliary arrays*. Biology Open, Dec 2015.

Community Service

2017-2020

Animal Welfare League of Alexandria, Alexandria, Virginia
- Volunteer for cats & dogs
- Foster care for cats & kittens

2014

Denver Hospice Denver, Colorado
- Volunteer

2013-2014

Dumb Friends League Denver, Colorado
- Dog Walker

2010

Mercy Ships Lomé, Togo
- 2nd Mate, Ship's Navigator

Professional affiliations

2023- Present

American Society for Microbiology

2023- Present **Association for Computing Machinery**

2023- Present **IEEE**

Personal Interests

- Running and triathlon
- Science fiction books
- History
- Gardening
- Board games