

Greg Tozzi

Data Scientist | Retiring Senior Military Officer | Active Clearance

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Professional Profile

Senior military officer (Captain, U.S. Coast Guard) with active TS/SCI clearance passionate about the practice and promise of data science. Customer-focused with firmly-held view that data science serves the needs of decision-makers. Dedicated and driven with a proven track record of achieving remarkable results—often under extremely challenging circumstances—individually, as a collaborator, and as a leader. Turns intent into action. Brings rare mix of sharp technical skills and deep expertise in leadership, operations, diplomacy, and strategy.

Data Science Skills and Projects Links

Python | R | SQL | Matlab/Octave | Bash

Numpy, Pandas, data.table

Connecting Prediction to Decision Making

- [CNAS Report on Prediction in Government Decision Making](#)

ML/Deep Learning for Image Tasks & Natural Language Processing

TensorFlow including functional API & custom loss functions, Scikit-Learn, Huggingface, Gensim, inferencing at the Edge

- [Toward Celestial Navigation with Deep Learning](#)
- [Detecting Discrimination in Court Documents](#)
- [Pediatric Pneumonia in X-Ray Images](#)

Causal Inference and Econometric Analysis

Designing experiments, randomization inference, A/B testing, regression analysis, robust estimation

- [Analyzing North Carolina Crime Data](#)
- [A/B Testing for Email Fundraising](#)

Visualization

D3, Vega-Lite, Tableau, ggplot2, Shiny, HTML/CSS/JS

- [Visualizing San Francisco Bay Vessel Traffic](#)

Cloud

Big Query, Docker for deployment, Kafka, Spark, Flask

Social Network Analysis

igraph

Experience

Executive Assistant to the Assistant Commandant for Acquisition

Washington, DC

U.S. Coast Guard Acquisition Directorate

2019 – Present

- Chief of staff for the Coast Guard's largest directorate (1,000 military + civilian, \$1.7 billion annual appropriation) responsible for acquiring ships, aircraft, and IT systems in support of U.S. Coast Guard mission execution.
- Principal assistant to Rear Admiral (O-8) and executive leadership team consisting of one flag (O-7) and four SES. Provides candid advice, chairs Senior Leadership Group (O-6/GS-15s), advocates for Leadership & Diversity Council. Oversees staff processes and links to 3- and 4-star leadership and the Department of Homeland Security. Drives development and measurement of strategy and ensures consistent internal and external messaging.
- Built program of engagement with think tanks, industry, DoD R&D ecosystem, and DIU to inform response to executive leadership's demand signal for AI/ML.

Education

University of California, Berkeley

Master of Information and Data Science

(MIDS), 2021 (anticipated)

MBA, 2008

Massachusetts Institute of Technology

Fellow, MIT Seminar XXI, 2014-2015

Master of Science, Mechanical Engineering

Master of Science, Naval Architecture & Marine Engineering, 2004

United States Coast Guard Academy

Bachelor of Science, Naval Architecture & Marine Engineering, 1998

Additional Strengths

Large organization leadership

Messaging and communication

Managing change

Team dynamics

Project management

Operations

Crisis management

National security policy

Diplomacy

Experience (continued)

Commanding Officer

Portsmouth, VA

U.S. Coast Guard Cutter HARRIET LANE

2017 - 2019

- Commanded a Coast Guard cutter with a crew of 100 charged with enforcing laws and treaties and conducting search and rescue from the Gulf of Maine to the Galapagos Islands.
- Developed data-driven tactics and applied them in ten kinetic drug interdictions and 59 fisheries boardings.
- Guided crew through challenging times including the 2019 government shutdown. Focus on building sense of shared purpose resulted in dramatic improvements in morale and mission execution.
- Taught courses in technical supervision to crew at sea as pro-bono adjunct professor at local community college.
- Won U.S. Interdiction Coordinator's Award (nation's top maritime interdiction unit), Gunnery Award (USCG's best major caliber weapon program), honorable mention for Yeaton Award (service's best cutter).

Senior Military Fellow

Center for a New American Security (CNAS) Washington, DC | 2016 - 2017

- Represented the U.S. Coast Guard at a prestigious Washington, DC think-tank focused on national security policy.
- Conducted research in event forecasting in support of government decision making resulting in published report.
- Facilitator for French Navy team in CNAS-sponsored tabletop exercise on countering Russian asymmetric threats in the Greenland-Iceland-UK Gap.

U.S. Coast Guard Liaison

Washington, DC

Department of State, Bureau of International Narcotics and Law Enforcement Affairs

2014 - 2016

- Key contributor to National Security Council's maritime security strategy for Central America.
- Teamed with interagency partners and international interlocutors to enact and extend diplomatic agreements.
- Secured flag state permission to board and search vessels suspected of trafficking through personal diplomatic engagement. Resulted in seizure of over 150 tons of contraband.
- Certified Maritime Drug Law Enforcement Act cases on behalf of Secretary Kerry, enabling 200 prosecutions.
- Invited and funded by the United Nations Office on Drugs and Crime to attend the 2016 Expert Group Meeting on Transnational Organized Crime at Sea held in Vienna, Austria.

Operations Officer

Alameda, CA

U.S. Coast Guard Cutter BERTHOLF

2012 - 2014

- Oversaw first combined US-Russian multi-national task unit during Exercise Rim of the Pacific 2012.
- Planned & executed the USCG's first operational evaluation of ScanEagle unmanned aerial system. Patrol tactics led to two drug interdictions during 12-day test, paving the way for fleet-wide adoption.
- Coordinated 12 interdictions involving surface and airborne assets employing warning shots and disabling fire against non-compliant vessels.

U.S. Coast Guard Attaché

Ta' Qali, Malta

U.S. Defense Attaché Office, U.S. Embassy Valetta

2010-2012

- Participated in evacuation of Embassy Tripoli staff, other Americans, and third-country nationals from Tripoli, Libya aboard commercially-chartered fast ferry in February 2011 ahead of Operation Odyssey Dawn.
- Accredited diplomat charged with advancing U.S. defense and maritime security interests.
- Provided subject matter expertise in Monte Carlo-based search and rescue planning and maritime law enforcement to students from Malta, Europe, and Africa.
- Communicated key insights related to maritime security and effects of the Arab Spring to senior policymakers.
- Managed direct support to the Armed Forces of Malta consistent with EUCOM and through International Military Education and Training (IMET) -funded courses and and Foreign Military Funds

U.S. Coast Guard Officer

1998-2010

- Variety of positions at sea and ashore. As supervisor of a section of staff naval engineers, developed data-driven forecasting to quantify cost uncertainty associated with major maintenance periods. Justified first increase in maintenance budget in two decades for 40 year-old assets dramatically improving uptime.
- Designated Cutterman and Surface Warfare Officer. Served as Navigator, USS BUNKER HILL for exchange tour.