

# Greg Tozzi

Data Scientist | Retiring Senior Military Officer | Active Clearance

greg.tozzi@ischool.berkeley.edu

[linkedin.com/in/gregorytozzi](https://www.linkedin.com/in/gregorytozzi)

[gregtozzi.com](https://gregtozzi.com)

## Professional Profile

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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

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**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

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## Education

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### 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

## Certification

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Certified TensorFlow Developer

## Additional Strengths

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Large organization leadership

Messaging and communication

Managing change

Team dynamics

Project management

Operations

National security and foreign policy

## Experience

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### 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.

## Experience (continued)

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### 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.