

Andrea M. Abler

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PROFILE

Technical Analyst

Skills: quantitative and qualitative analytic methods, modeling and simulation, thematic analysis, linear programming and optimization, decision analysis, strong oral and written communication skills, knowledge management, illustration

Fields: national security strategy, military acquisition and logistics, military personnel management, space policy, emerging technology

Attributes: I excel in dynamic environments that demand rapid comprehension and synthesis across a broad range of topics. I am skilled at dissecting complex, multifaceted problems and ill-defined issues into effective analytical frameworks and communicating complex concepts to technical and non-technical audiences. Highly outcome-oriented, I value objectivity, clarity, and efficiency.

EDUCATION

M.A. Security Studies	Georgetown University	2012
M.S. Oceanography	University of California San Diego	2010
B.S. Physics, <i>magna cum laude</i>	University of Maryland Baltimore County	2008
B.A. History, <i>magna cum laude</i>	University of Maryland Baltimore County	2008

EXPERIENCE

Senior Technical Analyst, RAND Corporation	2019 - present
Technical Analyst	2015 - 2019
Research Assistant	2013 - 2015

Contributes to policy research for military and other clients through modeling and simulation; measurement space development; data collection, preparation and analysis; literature reviews; preparation of draft documents and presentations; political cartoon illustration; and knowledge management.

Operations Research Analyst, US Army TRADOC Analysis Center 2012 – 2013
Created computer based decision-making aid; analyzed complex data from military systems maintenance model; assisted in developing metrics and measurement space for operational energy (OE) analyses..

Technical Intern, KEYW Corporation 2010
Primary author and point of contact for Small Business Innovation Research (SBIR) proposals; researched emerging technology for feasibility and applicability to ongoing and future work.

Graduate Researcher, Scripps Institution of Oceanography 2008 – 2010
Analyzed coral samples for applications in archeological oceanography; designed, fabricated, and utilized experimental apparatus to investigate the behavior of standing waves in a basin.

	Technical Intern, Northrop Grumman	2007 – 2008
	Simulated annual energy production of solar panel design; wrote and edited project proposals, project implementation plans and user manuals; designed, compiled and presented customer project briefs; served as acting manager of 5-6 person team.	
	Research Intern, Horn Point Laboratory	2006
	Simulated hurricane winds and storm surges on the Chesapeake Bay; presented research results at international scientific conference.	
	Undergraduate Researcher, UMBC Optics Lab	2003 – 2006
	Tested electro-optic properties of polymer materials; assembled and tested optical experiments; presented research results to scientific audience and general public.	
MILITARY TRAINING	Army Civilian Education System (CES) Basic Course Phase I	2013
	Army Civilian Education System (CES) Foundation Course	2013
	Operations Research Military Applications Course (ORSA-MAC)	2012
	Army TRADOC Analysis Center Civilian Greening	2012
	Army Spouse Resiliency Training	2010
	Army Family Team Building	2010
CLEARANCE	Security clearance information available upon request	
AWARDS	Honor Graduate, ORSA Military Applications Course (ORSA-MAC)	2012
	DoD Science, Mathematics and Research for Transformation (SMART) Scholar	2011
	National Science Foundation Graduate Research Fellow	2009
	Meyerhoff Scholar, University of Maryland Baltimore County	2003
PROFESSIONAL MEMBERSHIPS	Military Operations Research Society	
	Phi Beta Kappa National Honors Society	
	Sigma Pi Sigma Physics Honor Society	
SELECT PUBLICATIONS	2019	Co-author, "Service member separation: updating the DD Form 214," RR-2712-OSD, RAND Corporation, Santa Monica, CA
	2017	Co-author, "Wonks and geeks: examining commercial technology stakeholders perceptions of and interactions with public policy," Science and Public Policy; doi: 10.1093/scipol/scw084
	2016	Co-author, "How the 'Wonks' of Public Policy and the 'Geeks' of Tech Can Get Together," TechCrunch. Online at: https://techcrunch.com/2016/03/17/how-the-wonks-of-public-policy-and-the-geeks-of-tech-can-get-together/
	2014	Co-author, "Gauging Tomorrow's Training Demands Today," RR-619-A, RAND Corporation, Santa Monica, CA
	2014	Co-author, "Markets for Cybercrime Tools and Stolen Data: Hackers' Bazaar," RR-610-JNI, RAND Corporation, Santa Monica, CA
	2012	Author, <i>Developing Costly, Risky Military Technologies: A Case Study in U.S. Missile Defense</i> , Master's Thesis, Georgetown University
	2010	Lead Author, "Nations' resilience to the effects of climate change," Climate and National Security: Securing Better Forecasts Symposium (poster), La

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- Jolla, CA
- 2008 Author, *Science and Technology in US Policy: US Export Controls in the 1980s*, Bachelor's Thesis, University of Maryland Baltimore County
- 2007 Lead Author, "The Effects of Different Hurricane Tracks on Storm Surges on the Chesapeake Bay: Modeling Hurricanes Floyd and Isabel," Estuarine Research Federation Conference (poster), Providence, RI
- 2005 Co-author, "Testing the Electro-optic Behavior of Non-linear Optical Polymers," UMBC Physics Department (poster), Baltimore, MD
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