

Steven T. Morse

Captain, Infantry, U.S. Army
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EDUCATION	<i>Master of Science, Operations Research</i>	2015 – 2017
	Massachusetts Institute of Technology, Cambridge, MA. GPA: 5.0/5.0	
	<i>Bachelor of Science, Mathematics</i>	2004 – 2008
	United States Military Academy, West Point, NY. GPA: 3.78/4.0	
EXPERIENCE	<i>Instructor</i>	Beginning July 2017
	United States Military Academy, West Point, NY	
	• Instructor, multivariable calculus (MA205).	
	<i>Research Fellow</i>	August 2015 – June 2017
	MIT and Draper Laboratory, Cambridge, MA	
	• Research fellow co-advised at MIT and Draper Laboratory, while completing requirements for a Master's in Operations Research with the MIT OR Center.	
	• Research in complex systems, specifically the influence structure of a communication network, with a focus in large-scale data. Coursework included machine learning, optimization, analytics, and networks.	
	<i>Assistant Secretary of the General Staff</i>	January 2015 – June 2015
	4th Infantry Division, Fort Carson, CO	
	• Assisted the Division Secretary of the General Staff (SGS) in coordinating operations and staff liaison for the Division Command Group consisting of the Div. Commanding General (2-star), his deputy commanders, and Chief of Staff.	
	• Performed as the SGS for over two months (a lieutenant colonel billet), including during a Division change of command. Also performed as the interim aide-de-camp for the Deputy Commanding General during this period.	
	<i>Company Commander</i>	October 2013 – January 2015
	Bravo Company, 2-8 Infantry Regiment (2ABCT), 4th Infantry Division	
	Fort Carson, CO and Camp Buehring, Kuwait	
	• Supervised a 120-man infantry company, including training, equipment maintenance (\$72 million worth), and human resource management.	
	• Deployed to Operation Spartan Shield, Kuwait, October 2013 – July 2014. Hand-selected by the Brigade Commander to command U.S. Army Central Command's primary crisis response force for the Middle East.	
	<i>Brigade Assistant Operations Officer</i>	November 2012 – September 2013
	2nd (Armored) Brigade Combat Team, 4th Infantry Division, Fort Carson, CO	
	• Assisted the operations officer of a 3,500-man brigade combat team in planning, resourcing, and executing training to prepare for combat deployment.	
	• Lead maneuver planner during the brigade's month-long certifying training event at the National Training Center (Ft. Irwin, CA).	
	<i>Company Executive Officer</i>	August 2011 – February 2012
	Headquarters and Headquarters Company, 2-502 Infantry Regiment (2BCT), 101st Airborne Division, Fort Campbell, KY	

- Managed day-to-day operations of a 214-man company including budgeting, resource allocation for training, and equipment maintenance (\$45 million worth). Second-in-command, serving as the commander in his absence.

Rifle Platoon Leader July 2009 – July 2011
 Attack Company, 2-502 Infantry Regiment, 101st Airborne Division
 Fort Campbell, KY and Kandahar, Afghanistan

- Supervised a 41-man infantry platoon including leading daily tasks ranging from combat training to family welfare.

PAPERS

Persistent Cascades and the Structure of Influence in a Communication Network. (Masters thesis) S. Morse. Massachusetts Institute of Technology. 2017.

Persistent Cascades: Measuring Fundamental Communication Structure in Social Networks. S. Morse, M. C. González, N. Markuzon. Proc. of the IEEE International Conference on Big Data (Washington D.C.), 2016.

Trace Diagrams, Signed Graph Colorings, and Matrix Minors. S. Morse, E. Peterson. Involve, vol. 3. 2009.

A Diagrammatic Approach to Linear Algebra: Results and Trivial Proofs. (Undergraduate thesis) S. Morse. U.S. Military Academy. 2008.

TALKS

Detecting Fundamental Patterns of Communication. Conference on Complex Systems (CCS), Self-Organizing Patterns Satellite (Amsterdam, the Netherlands), 2016.

A Diagrammatic Approach to Linear Algebra: Some Results and Trivial Proofs. 3rd Annual Spuyten-Duyvil Undergraduate Mathematics Conference, 2008.

TEACHING

Instructor, USMA Department of Mathematics, 2017–present.
 Instructor, Software Tools for Optimization and Analytics (15.S60), Winter seminar.
 Teaching Assistant, The Analytics Edge (15.071), online, edX.

SKILLS

Programming: Python, R, Java, C, C++, JavaScript/jQuery, HTML/CSS, LaTeX.
Software: MATLAB, Mathematica, Git.
Certifications: Secret clearance.

MILITARY SCHOOLS & AWARDS

Schools: U.S. Army Ranger School, Airborne School, Sabalauski Air Assault School, Basic Mountaineering Course, Combatives Level I and II, Maneuver Captains Career Course, Bradley (Mechanized) Leader Course.

Awards (selected): Ranger Tab, Expert Infantryman Badge, Combat Infantryman Badge, Parachutist Badge, Air Assault Badge, Bronze Star, Meritorious Service Medal (x2), Military Outstanding Volunteer Service Medal, Presidential Unit Citation, Valorous Unit Citation, Meritorious Unit Citation.

VOLUNTEER SERVICE

ORC IAP Seminar, *Coordinator* January 2017
 INFORMS, MIT Chapter, *Officer* January 2016 – December 2016
 Journey Church, *Lead Guitar and Setup* November 2015 – April 2017
 Camp Buehring Chapel, *Lead Guitar* November 2013 – May 2014