

## Steven T. Morse

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- EDUCATION**     *Master of Science, Operations Research (expected: June 2017)*     2015 - Present  
Massachusetts Institute of Technology, Cambridge, MA. GPA: 5.0/5.0
- Bachelor of Science, Mathematics*     2004 - 2008  
United States Military Academy, West Point, NY. GPA: 3.78/4.0
- EXPERIENCE**     *Research Fellow*     August 2015 - Present  
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 spread of influence and information through a social network, with a focus in large-scale data. Coursework included machine learning, optimization, analytics, and networks.
- Assistant Secretary of the General Staff*     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.
- Company Commander*     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.
- Brigade Assistant Operations Officer*     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).
- Company Executive Officer*     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: Measuring Patterns of Communication in Social Networks.* S. Morse, M. C. González, N. Markuzon. IEEE Conference on Big Data, Washington D.C. (**accepted**) 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

*Persistent Cascades: 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

USMA Mathematics Dep't Instructor, 2017-20 (upcoming)  
Software Tools for Optimization and Analytics (15.S60), Winter seminar.  
The Analytics Edge (15.071), online, edX.

## SKILLS

*Programming:* Python, R, Java, C, C++, JavaScript/jQuery, HTML/CSS, LaTeX.  
*Software:* MATLAB, Mathematica, Git.  
*Certifications:* Top Secret clearance (interim).  
*Other:* Piano, Guitar, Voice.

## 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 - Present  
Camp Buehring Chapel, *Lead Guitar* November 2013 - May 2014