

# Curriculum Vitae for Peter A. Nesbitt, Ph.D

August 2020

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## CURRENT POSITION

Assistant Professor  
Operations Research Department  
Naval Postgraduate School  
Monterey, California 93943-5000

Office: Glasgow 263  
Email: peter.nesbitt@nps.edu

## EDUCATION

**Colorado School of Mines**, Mechanical Engineering Department

PH.D., Operations Research, May 2020.

Dissertation Title: *Optimization-based Procedures for Underground Mine Planning*

Advisors: Alexandra Newman, Tülay Flamand

**Naval Postgraduate School**, Operations Research Department.

M.S., Operations Research, December 2012.

Thesis Title: *Delaying a Nuclear Proliferator: Interdicting Combined Social Network and Project Management Models.*

Advisors: Lee Ewing, W. Matthew Carlyle.

**United States Military Academy**, Systems Engineering Department.

B.S., Systems Engineering, May 2001.

## HONORS AND AWARDS

Military Operations Research Society Stephen A. Tisdale Graduate Research Award, Naval Postgraduate School, December, 2012.

Valorous Unit Award, Joint Unit Award, Meritorious Unit Award, Bronze Star Medal.

## SELECTED PUBLICATIONS

- Nesbitt, P., Kennedy, Q., Alt, J., & Fricker, R. (2015). Iowa Gambling task modified for military domain. *Military Psychology*, 27(4), 252 – 260.
- Kennedy, Q., Nesbitt, P., and Alt, J. (2014) “Assessment of Cognitive Components of Decision Making with Military Versions of the IGT and WCST,” in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, vol. 58, no. 1. SAGE Publications, pp. 300–314.

## THESIS SUPERVISION (AS SECOND READER)

- Teters II, J.C. (2013) “Enhancing Entity Level Knowledge Representation and Environmental Sensing in COMBATXXI Using Unmanned Aircraft Systems,” Master’s thesis, Naval Postgraduate School. Monterey, CA.
- Craig, R. (2014) “Facility Location and Capacitated Multi-commodity Transshipment Model with Transmission Loss,” Master’s Thesis, Air Force Institute of Technology. Dayton, OH.

## TECHNICAL REPORTS AND OTHER PUBLICATIONS

- Nesbitt, P., Craparo, E.M., Marks, C.M., Alt, J.K., Smead, K.D., and Tabacca, J.L. (2013) “Modification to the Joint Platform Allocation Tool (JPAT) to Include Additional Warfighting Functions. Aerial R&S Future,” Unclassified, Army TRADOC Analysis Center. Monterey, CA, Tech. Rep. TRAC-M-TR- 13-051.
- Buss, A., Marks, C., Nesbitt, P., and Alt, J. (2013) “Modeling Updates in Support of Armed Aerial Scout,” Unclassified, Army TRADOC Analysis Center. Monterey, CA, Tech. Rep. TRAC- M-TM-13-043.
- Nesbitt, P., Anderson, T., Alt, J.K., Ohmen, D., Quinnell, K. and Torres M., (2013) “Knowledge Representation for Decision Making Agents,” Unclassified, Army TRADOC Analysis Center. Monterey, CA, Tech. Rep. TRAC-M-TR-13-054.
- Nesbitt, P., Kennedy, Q., Alt, J., Fricker, R., Whitaker, L., Yang, J.H., Appleget, J., Huston, J., and

- Patton, S., (2013) "Understanding Optimal Decision-Making in Wargaming," Naval Postgraduate School. Monterey, CA, Tech. Rep. NPS-OR-14-001.
- C. Marks and P. Nesbitt, (2013) "TRAC FY14 Research Requirements Elicitation," Unclassified, Army TRADOC Analysis Center. Monterey, CA, Tech. Rep. TRAC-M-TM-13-059.
  - Nesbitt, P. (2014) "Influencing Decision Making in Networks," Unclassified, Army TRADOC Analysis Center. Monterey, CA, Tech. Rep. TRAC-M-TM-14-032.

#### CONFERENCE PROCEEDINGS

- Bolke, K., Nesbitt, P. (2016) "Analytical Wargaming: Planning, Executing and Assessing Army Division Operations", 54th Army Operations Research Society Conference, Aberdeen, MD.
- Kennedy, Q., Nesbitt, P., Alt, J., & Fricker, R. (2015). Cognitive Alignment with Performance Targeted Training Intervention Model. Department of Defense Human Factors Engineering Technical Advisory Group meeting, Orlando FL.
- Kennedy, Q., Nesbitt, P., Alt, J., & Fricker, R. (2015). Cognitive Alignment with Performance Targeted Training Intervention Model: CAPTTIM. Human Factors and Ergonomics Society 2015 International Annual Meeting, Los Angeles, CA.
- Moten, C., Kennedy, Q., Alt, J. & Nesbitt, P. (2015). Wisconsin Card Sorting Task modified for the military domain. 83rd MORS Symposium, Alexandria, VA.
- Ewing, P., Carlyle, M., and Nesbitt, P. (2014) Interdicting Social-Functional Networks, Military Application Society session, Institute for Operations Research and the Management Sciences Annual Meeting, San Francisco, CA.
- Nesbitt, P. (2014) "Delaying a Nuclear Proliferator: Interdicting Combined Social Network and Project Management Models". Military Operations Research Society Annual Symposium, Alexandria, VA.
- Nesbitt, P., and Stevens, T. (2102) Robotic Barrier Patrol Implementation and Experimentation, Military Operations Research Society Annual Symposium, Colorado Springs, CO.

#### PROFESSIONAL EXPERIENCE

2016-17 **Joint Operations Analyst**. US Central Command in Tampa, FL.

My current assignment at US Central Command includes wargaming, simulations and analysis for all US military planning in the middle east region. My duties include understanding geopolitical theories as well as US and regional policy and military capabilities. I design and analytically support military campaigns that create conditions for successful diplomatic solutions in the region.

2014-16 **Division Assessments Officer**. US Army Fourth Infantry Division in Colorado Springs, CO.

A Division Assessments Officer is responsible for the development of operational assessments and analysis within key programs to facilitate the Division Commander's ability to execute mission command. I supported community and soldier health and quality of life through data and decision analysis. I also designed US participation in the security of Europe, to include the largest US operation ever conducted in Eastern Europe and the current deployment of the Fourth Infantry Division.

2012-14 **Military Operations Research Analyst**. Army TRADOC Analysis Center (TRAC) in Monterey, CA.

A TRAC research analyst is responsible for conducting relevant and credible research to support the Army's warfighting capabilities. I served as government lead for four to five concurrent research projects synchronizing the efforts of Army analysts, contractors, scholars, and other organizations within the Department of Defense. Each project includes a multitude of responsibilities: technical supervision, budget management, team coordination and unclassified and classified publication. I also served on the Institutional Review Board by NPS President appointment, responsible for setting research ethics and institutional policy review.

2010-12 **Student pursuing Masters degree**, Naval Postgraduate School in Monterey, CA.

My graduate work focused on math programming, search and detection applications and human decision making. The resulting math programming thesis on interdicting adversarial social and functional networks earned a MORS Tisdale Graduate Research Award.

2008-10 **Troop Commander**, 5th Squadron, 4th US Cavalry Regiment in Baghdad, Iraq.

I assumed command of a United States Cavalry Troop and led them in combat. We secured North Western Baghdad (Al Mansour District) as the sole US unit in the district. We successfully transitioned from US offensive operations to combined security with an Iraqi Army Brigade.

- 2008 **Operations Plans Officer**, 1st Battalion, 7th Field Artillery at Fort Riley, KS.  
My specific task was to design and supervise transition of all Paladin M109 crews into motorized infantry with less than four months before deployment in support of Operation Iraqi Freedom. Their success in transition earned them a front role in the brigade's expeditionary mission.
- 2005-08 **Assistant Professor of Military Science**, University of Alaska in Fairbanks, AK.  
ROTC Assistant Professors are responsible for training, budget and logistical support. At the Army's only commissioning program in Alaska, I served as an academic advisor, life counselor, and military instructor for over eighty officer candidates leading to commissioning twenty-five US Army Second Lieutenants.
- 2003-04 **Company Executive Officer**, 1st Battalion, 34th Armor Regiment in Al Anbar, Iraq.  
As a company executive officer, I led forty combat vehicles from Kuwait to Fallujah, Iraq. After the movement, I established company operations including maintenance and living quarters from captured Iraqi Army facilities. For the next year, I coordinated continuous combat operations despite casualties, heavy battle damage and sustainment shortages.
- 2001-02 **Armor Platoon Leader**, 1st Battalion, 34th Armor Regiment at Fort Riley, KS.  
A platoon leader is responsible for the morale, health and welfare of 18 Soldiers and their families; maintenance of five M1A1 main battle tanks and all ancillary equipment valued in excess of \$14 million. I successfully planned and led all missions and directives assigned to the platoon.
- 1997-01 **US Army Cadet**, United States Military Academy at West Point, NY.  
I graduated on time with a Bachelor's in Science from the Systems Engineering Department.

#### PROFESSIONAL CERTIFICATIONS

- Deployed (Operations Research) Analyst Course (2016) Fort Belvoir, VA.
- Operations Research Systems Analyst Qualification Course (2014) Fort Lee, VA.
- Command & General Staff Officer Course (2013) Fort Leavenworth, KS.
- Army Combatives Course (2008) Fort Riley, KS.
- Combat Life Savers Course (2005) Fort Wainwright, AK.
- Armor Captain's Career Course (2004) Fort Knox, KY.
- Nuclear, Biological, Chemical Defense Course (2002) Fort Riley, KS.
- Armor Basic Officer Leader's Course (2001) Fort Knox, KY.
- US Army Airborne Training (2000) Fort Benning, GA.