

**Michael D. Teter**  
Major (P), U.S. Army  
Combat Analyst  
TRADOC Analysis Center (TRAC) - Monterey  
Monterey, CA 93943

*Personal Information*

**Residence:** 515 Michelson Rd  
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**Current Position:**

Combat Analyst  
TRAC-MTRY  
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**Family:** Married (11 years to Allison), 3 children:  
John Michael (10 yrs)  
Augusta (7 yrs)  
Leilani (5 yrs)

*Research Interests*

- Mathematical programming, specializing in Mixed Integer Programs (MIP)
- Methods of eliciting knowledge and analyzing the responses
- Non-parametric distribution estimation using epi-spline methods
- Applied optimization techniques

*Education*

**Colorado School of Mines** Golden, CO  
Ph.D. Candidate  
Operations Research with Engineering, Presently

**Colorado School of Mines** Golden, CO  
M.S. in Mineral and Energy Economics May 2013

**MidAmerica Nazarene University** Olathe, KS  
B.A. in Communications and Public Relations May 1998

## *Professional Certifications*

**Operations Research/Systems Analyst (ORSA) Qualification Course.** Fort Lee, Virginia, 2013.

**Intermediate Level Education.** Fort Lee, Virginia, 2013.

**Combined Arms Services Staff School.** Fort Leavenworth, Kansas, 2003.

**Airborne School.** Fort Benning, Georgia, 2003.

**Combined Logistics Captain's Career Course.** Fort Lee, VA 2003.

**Transportation Officer Branch Qualification Course,** Fort Eustis, VA 2000.

**Chemical Officer Basic Course.** Fort McClellan, AL 1998.

## *Professional Experience*

### **TRADOC Analysis Center - Monterey**

Monterey, CA

Combat Analyst (2013 – Present)

- Lead and manage reimbursable research projects with budgets over \$100k, synchronizing efforts of Army analysts, Naval Postgraduate School (NPS) Professors and students ensuring objectives and timelines are met.
- Mission: conduct relevant and credible research for a variety of stakeholders in order to address identified TRAC research requirements.
- Serve as second reader to NPS master's student theses.

### **Center for Army Analysis (CAA) Operational Tour Program**

(June – July 2012)

Fort Belvoir, VA

- Competitively selected to work in the Center for Army Analysis for a six week immersion program
- Continued work on a mathematical program to optimally reduce the United States Army to a certain troop level over a given time horizon while meeting operational, personnel, facility, range and budgetary constraints; the Unit Reduction and Stationing model.

### **Design-Approach workshops**

(October 2009, April 2010)

Honolulu, HI

- Facilitated two workshops which taught a design-approach using systems-thinking to lead a discourse on framing the problem, understanding the environment and an initial operational approach to a solution.
- One workshop focused on South Asia while the other focused on Northeast Asia.

### **Certifying officer, 97L (Interpreter) advanced Individual Training Course**

(December 2001 – June 2002)

Presidio of Monterey, CA

- Responsible for certifying all course requirements were taught and that each graduating student satisfied all the requirements.

#### **Course Guest Lecture:**

- Systems Engineering Colloquium
  - “Implementation Strategy for the Monte Carlo Tree Search Algorithm”
- Cyber Systems and Operations Research Methods
  - “Special Topics of Research Interest and TRAC-Monterey overview”
- Modeling, Virtual Environments, and Simulation (MOVES) Brown bag Luncheon
  - “Considerations in Designing an Elicitation”
  - “Elicitation of Knowledge from Subject Matter Experts”
- Workshop in Operations Research/Systems Analysis
  - “Research Topics of Interest and TRAC-Monterey Overview”

#### **United States Army**

##### Summary of Officer Assignments (1998- 2011)

- Design Team Planner and Executive Officer, G5, US Army, Pacific (USARPAC), Fort Shafter, Hawaii. – Planned, coordinated and executed all support for USARPAC design efforts to include property, conferences and workshops. Apply critical and creative thinking to understand, visualize, and describe ill-structured problems and develop operational approaches to address the solutions within the Pacific.
- Exercise Logistics Planner, G4, US Army, Pacific (USARPAC), Fort Shafter, Hawaii. – Planned, coordinated and managed logistical and sustainment operations for Army and Joint Forces participating in ten Chairman, Joint Chiefs of Staff (CJCS) sponsored exercises, ten Theater Security Cooperation Program (TCSP) sponsored exercises and three Department of Homeland Defense (HD) exercises within the Asia-Pacific area of responsibility.
- Battalion S3, 10<sup>th</sup> Transportation Battalion, Camp Arifjan, Kuwait – Operations officer for a unit with 1300 soldiers which provided theater-level heavy equipment transport, combat logistics patrol security and watercraft lift capabilities, supporting Operation Iraqi Freedom (OIF).
- Company Commander, 73<sup>rd</sup> Transportation Company, 10<sup>th</sup> Transportation Battalion, 7<sup>th</sup> Transportation Group, Fort Eustis, Virginia – Commanded and led a floating craft company of ~30 officers and ~150 enlisted soldiers which consisted of mission planning and execution of Army tugboat, marine fueling and floating crane operations along the eastern seaboard.
- Port Operations Officer, 950<sup>th</sup> Transportation Company, 598<sup>th</sup> Transportation Terminal Group, Bremerhaven, Germany and Balad, Iraq. – Operated Department of Defense strategic transportation in seaports in northern Europe, Scandinavia, the Baltic States, and Iraq.

- Executive Officer, C Company and School for Continuing Education, Defense Language Institute & Foreign Language Center, Presidio of Monterey, California – Provided logistical, training and administrative support directly to ~350 soldiers and distributed support to ~3500 students, Certifying office for the Interpreter (97L) course.
- Platoon Leader, 501<sup>st</sup> Chemical Company, 23<sup>rd</sup> Chemical Battalion, Camp Carroll, Republic of Korea. – led a decontamination unit of ~19 soldiers
- Personnel Officer, 23<sup>rd</sup> Chemical Battalion, Camp Carroll, Republic of Korea. – Provided human resource support for ~ 600 soldiers.

#### *Academic Awards*

- Commandant’s List, Combined Logistics Captains Career Course, 2003.
- Distinguished Graduate, Transportation Officer Branch Qualification Course, 2000.
- Distinguished Honor Graduate, Chemical Officer Basic Course, 1999.
- Who’s Who Among Students in American Universities and Colleges, MidAmerica Nazarene University, May 1998.

#### *Military Awards*

Bronze Star  
 Meritorious Service Medal (3 awards)  
 Army Commendation Medal (3 awards)  
 Joint Service Achievement Medal  
 Army Achievement Medal (3 awards)

#### *Military Service Decorations*

National Defense Service Medal  
 Iraqi Campaign Medal Campaign Star  
 Global War On Terrorism Expeditionary Medal  
 Global War On Terrorism Service Medal  
 Korean Defense Service Medal  
 Military Outstanding Volunteer Service Medal  
 Army Service Ribbon  
 Overseas Service Medal

#### *Publications*

Teter, M., Newman, A., and Weiss, M. “How to Present Optimization Models.”  
*Submitted to INFORMS transactions in Education (ITE).*

Deveans, T., Jacobs, P., Gaver, D., and Teter, M. “Analysis of the Capability Portfolio Review (CPR).” Technical Report, TRAC-M-TR-14-021, June 2014.

Teter, M., Buss, A., Darken, C., and Baez, F. "Implementation of Monte Carlo Tree Search (MCTS) Algorithm in COMBATXXI using JDAFS." Technical Report, TRAC-M-TR-14-031, 31 July 2014.

Teter, M. "Subject Matter Expertise Elicitation and Analysis Techniques." *Working with expected completion fall 2014.*

### *Presentations*

Teter, M. (2014), "Military Capital Budgeting with Risk and Effectiveness", Military Application Society session, INFORMS Annual Meeting, San Francisco, CA, November 2014. *(Invited and expected to present)*

Teter, M., Deveans, T., Jacobs, P., and Gaber, Don. (2014), "Using Bayesian Analysis to Perform Better Tradeoff Analysis in Capability Portfolio Reviews", Military Operations Research Society Annual Symposium, Alexandria, Virginia, June 2014.

Teter, M., (2014), "Multi-dimensional Expert Elicitation Explored Using Measures of Agreement, Consensus, and Dissent", Military Operations Research Society Annual Symposium, Alexandria, Virginia, June 2014.

Teter, M. (2013), "Optimally Stationing and/or Reducing the US Military using a Mixed Integer Linear Program (MILP)", Military Application Society session, INFORMS Annual Meeting, Minneapolis, MN, October 2013. *(Invited but did not present due to US Government Shutdown)*

Teter, M. (2012), "United States Army Brigade Combat Team Model with Demand Reduction Over Time", Decision Analysis Society session, INFORMS Annual Meeting, Phoenix, AZ, October 2012.

### *Memberships*

Association of the United States Army (AUSA)  
Institute For Operations Research and the Management Sciences (INFORMS)  
Military Operations Research Society (MORS)  
Military Officer Association of America (MOAA)  
National Defense Transportation Association (NDTA)

### *Professional Service*

Session Chair, TRAC-MTRY research Interests, Naval Postgraduate School (NPS) annual research requirements fair. 2013.

Panel Member, Wilbur Payne Award Analysis Review Team, TRADOC Analysis Center internal review, 2013.