Dusty Turner

Instructor, United States Military Academy

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Education

M.S., Integrated Systems Engineering, *The Ohio State University*	2016
Graduate Minor, Applied Statistics, *The Ohio State University*	2016
M.S., Engineering Management, *Missouri University of Science and Technology*	2012
B.S., Operations Research, *The United States Military Academy*	2007

Academic Experience

Instructor, Department of Mathematical Sciences
United States Military Academy 2016-Present

Courses Taught

West Point

MA488 - Special Topics in Mathematics: Statistical Learning (Fall)	2018
MA256 - Advanced Probability and Statistics (Spring/Fall)	2018
MA388 - Sabermetrics (Spring)	2018
MA206x - Advanced Probability and Statistics Pilot Course (Spring/Fall)	2017
MA103 - Mathematical Modeling and Introduction to Calculus (Fall)	2016

Courses Directed

West Point

MA206 - Introduction to Probability and Statistics (Spring)	2018
MA388 - (Assistant) Sabermetrics (Spring)	2018
MA256 - Advanced Introduction to Probability and Statistics (Spring/Fall)	2018
MA206x - Advanced Introduction to Probability and Statistics Pilot Course	2017

Refereed Publications

Alex, J, **Turner D**, Thomas D, McDougall A, Halawani M, Heymsfield S, Martin C, Scisco J, Salley J, Muth E, Hoover E. Bite count rates in free-living individuals: New insights from a portable sensor. *BMC Nutrition* 2017. Link

Thomas D, **Turner D**, Santoro C, Loreti S, Shah R, Salafia C, Pietrobelli A, Raffaelli R. Can 3D derived placental measures obtained from 2D ultrasounds predict pregnancy outcomes? *Placenta* 2017. Under Review

Garrett, M., Kuiper, P., Hood, K., Turner, D. (2018) "Leveraging Mutual Information to Generate Domain Specific Lexicons." *Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation*. In Review.

Works In Progress

Turner D, Kuiper P, Hood K, Lindquist J. Sentiment Analysis in Puerto Rico in the wake of Hurricane Maria. 2018.

Turner D, Pleuss J, Collins C. Do Academically Homogeneous Classrooms Create a Better Learning Experience? 2018.

Sesti, Joanna, Sikora T, **Turner D**. Demographic Indicators of Lung Cancer Screening Follow Up Rates. 2018.

Tudor-Locke, Catrine, Thomas D, **Turner D**, Pleuss, J. Run to Walk Cadence for Minors. 2018.

Presentations

Turner D, Pleuss J (2018). "Modeling Undergraduate Statistics Performance" Accepted Abstract at the *Joint Statistical Meetings*, Vancouver, Canada.

Turner D, Hood K, Kuiper P, Lindquist J (2018). "Machine Learning, Artificial Intelligence, and Sentiment Analysis in Restricted Operating Environments" Accepted Abstract at the *NATO Information Systems and Technology Specialists' Meeting on Big Data and Artificial Intelligence for Military Decision Making*, Bordeaux, France. Link

Turner D (2018). "Modeling the 2018 Men's NCAA Tournament" *West Point Sports Analytics Club*, West Point, New York. Link

Turner D (2018). "Putting the R in USMA: Teaching Statistics in an Academically Homogeneous Classroom" Invited Presentation at the *New York R Conference*, New York City, New York. Link

Turner D(2018). "Web Scraping in R" *Center For Data Analysis Lecture Series*, West Point, New York. Link

Turner D, Hood K, Kuiper P, Lindquist J, Risius D (2018). "Public Perception to the Government Response to Hurricane Maria in Puerto Rico." Presentation at the *Military Operations Research (MORS) Assessmens Special Session*, McDill Air Force Base, FL. Link

Turner, D (2017). Data Scraping in R. Presentation at the *Military Operations Research Conference (MORS)*, West Point, NY. Link

Statistical Consulting Activity

Assistant Director, Center for Data Analysis and Statistics (CDAS)   2016-Present
Clients
   Director of Admissions: Visualizing Minority Cadets by Congressional District
   Director of Admissions: Analysis of Altering Early Admissions Criteria for Corps Squad
   Athletes

Honor Societies

Pi-Mu-Epsilon   2016
Phi-Kappa-Phi   2016

Student Research

Co-Adviser, Honors Thesis. Stockdale, John, Predicting Physical Performance
   Success at West Point, The United States Military Academy
Co-Adviser, Honors Thesis. McDermott, Stephanie, A Statistical Analysis of MA104
   Performance, The United States Military Academy

Student Development Service

Head Officer In Charge, Veritas Forum	2017-Present
Head Officer In Charge, Sports Analytics Club	2017-Present
Officer Representative, Officer Christian Fellowship (OCF) Club	2016-Present
Cadet Team Adviser, Interdisciplinary Contest in Modeling	2016
Sponsor for 25 Cadets, Fourth Class Sponsorship Program	2016-Present
Academic Officer In Charge	2016-Present

Hosted Seminars

David Robinson, *Text Analysis: The Tidy Way*, Center for Data Analysis Speaker Series and
MA256 Course Lecture. April 2018
Vince Vitale, *Why Suffering?*, Veritas Forum. February 2018
James Long, *Picking an analysis tool: how to recognize the limits of your tools*, Center for Data
   Analysis Speaker Series and MA388 Course Lecture. February 2018
Emily Robinson, *A/B Testing in the Wild*, Center for Data Analysis Speaker Series and MA206x
   Course Lecture. October 2017
Jared Lander, *R For Everything*, Center for Data Analysis Speaker Series. September 2017

Community Service

Assistant Youth Soccer Coach	2017-Present
The Junior Military Counsel to the Superintendent	2016-Present
Assistant T-Ball Coach	2016-Present

Selected Military Service

White Sands Missile Range, New Mexico   2012-2014
   Company Commander, 40th Mobility Augmentation Company
   Plans Officer, 2nd Engineer Battalion

Schofield Barracks, Hawaii
   Chief of Operations, 65th Engineer Battalion   2008-2011
   Executive Officer, 34th Sapper Company
   Platoon Leader, 70th Geospatial Company

Deployments

Operation Iraqi Freedom, Taji, Iraq	2008-2009
Operation Enduring Freedom, Ghazni, Afghanistan	2013

Selected Military Awards

Bronze Star
Purple Heart
Army Commendation Medal (2 Oak Leaf Clusters)
Army Achievement Medal (1 Oak Leaf Cluster)