

Dusty Turner

Instructor, United States Military Academy
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Education

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

Academic Experience

Instructor, Department of Mathematical Sciences <i>United States Military Academy</i>	2016-Present
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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*. Under 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, **Turner D**, Pleuss, J. Run to Walk Cadence for Minors. 2018.

Voss, Jameson, Dhurandhar, Nikhil, **Turner D**, Weight Gain Adverse Events in Multiple Drugs. 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) Assessments 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

Novartis: Developed statistical models and provided statistical analysis related to a weight loss compound. Updated an interdisciplinary team of investigators on progress through weekly calls. June 2017-Present

Professional Memberships

American Statistical Association (ASA)

Pi-Mu-Epsilon

2016

Phi-Kappa-Phi

2016

Faculty Development

Member/Presenter | Bi-Weekly Statistics Lunch

Presenter/Host | New Faculty Development Workshop

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

Institutional Service

The Junior Military Counsel to the Superintendent	2016-Present
Superintendent's Transition Team	
Incoming Class Summer Assessment Testing Volunteer	

Professional Service

Functional Area 49 Recruiting Committee	2018-Present
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Community Service

Assistant Youth Soccer Coach	2017-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)