

# Dusty Turner

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## Education

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

## Academic Experience

Instructor and Assistant Professor, Department of Mathematical Sciences <i>United States Military Academy</i>	2016-Present
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## Awards

BG (Retired) Jack Murph Pollin Award for Faculty Excellence, The United States Military Academy at West Point, 2019.  
Army Operations Research Symposium (AORS) Military Junior Analyst Award, 2019.

## Courses Taught

<b>West Point</b>	
<b>MA206</b> - Introduction to Probability and Statistics (Summer)	2019
<b>MA256</b> - Advanced Introduction to Probability and Statistics (Spring)	2019
<b>MA388</b> - Sabermetrics (Spring)	2019
<b>MA488</b> - Special Topics in Mathematics: Statistical Learning (Fall)	2018
<b>MA256</b> - Advanced Probability and Statistics (Spring/Fall)	2018
<b>MA388</b> - Sabermetrics (Spring)	2018
<b>MA206x</b> - Advanced Probability and Statistics Pilot Course (Spring/Fall)	2017
<b>MA103</b> - Mathematical Modeling and Introduction to Calculus (Fall)	2016

## Courses Directed

<b>West Point</b>	
<b>MA256</b> - Advanced Introduction to Probability and Statistics (Spring/Fall)	2019
<b>MA388</b> - (Assistant) Sabermetrics (Spring)	2019
<b>MA206</b> - Introduction to Probability and Statistics (Summer)	2018
<b>MA388</b> - (Assistant) Sabermetrics (Spring)	2018
<b>MA256</b> - Advanced Introduction to Probability and Statistics (Spring/Fall)	2018
<b>MA206x</b> - Advanced Introduction to Probability and Statistics Pilot Course	2017

## Short Courses

<b>OS305</b> - Introduction to R for Intelligence Analysis (July)	2019
<b>CAA</b> - Introduction to R and Data Analysis (Oct/Nov)	2019

## Book Chapters

Cummiskey K, Pleuss J, Adams B, **Turner D**, Sulewski C, and Watts K. (2019) An undergraduate statistics project to develop statistical thinking and effective writing. *Teaching and Learning the West Point Way* (Under Review)

## Refereed Publications

Alex J, **Turner D**, Thomas D, McDougall A, Halawani M, Heymsfield S, Martin C, Scisco J, Salley J, Muth E, Hoover E. (2018) Bite count rates in free-living individuals: New insights from a portable sensor. *BMC Nutrition*. [Link](#)

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*. [Link](#)

Thomas D, Clark N, **Turner D**, Siu C, Halliday T, Hannon B, Kahathuduwa C, Kroeger C, Allison, D. (2018) Identifying if Regression to the Mean is a Problem in a Study. *IUScholar Works* [Link](#)

**Turner, Dusty**, Costa, G. (2019) Yankees or Mets... Who Owns New York City? *The Baseball Research Journal* [Link](#)

Bigelman K, East W, Thomas D, **Turner D**, Hertling M. (2019) The New Army Combat Fitness Test: An Opportunity to Improve Recruitment and Retainment. [Link](#) [Link](#)

Thomas D, Clark N, **Turner Dusty**, Siu C, Halliday T, Hannon B, Kahathuduwa C, Kroeger C, Zoh R, Allison D. Best (but oft-forgotten) practices: identifying and accounting for regression to the mean in nutrition and obesity research, *The American Journal of Clinical Nutrition*, [Link](#) [Link](#)

**Turner Dusty**, Pleuss J, Collins C. (2019) The Impact of Academically Homogeneous Classrooms. *PRIMUS*. (Accepted with revision)

Cummenski, Kevin, Adams, B, Pleuss, J, **Turner, D**, Clark N, Watts, K. (2019) Causal Inference in Introductory Statistics Courses. *Journal for Statistics Education* (Accepted with Revision)

Sesti J, Sikora T, **Turner D**. (2019) Predictors of Follow-Up After a Positive Lung Cancer Screening Test in the National Lung Cancer Screening Trial. (Under Review)

Ducharme S, **Turner D**, Pleuss J, Aguiar E. (2019) Run to Walk Cadence for Minors. *Journal for the Measurement of Physical Behaviour*. (Under Review)

Voss J, Dhurandhar N, **Turner D**, (2019) Weight Gain Adverse Events in Multiple Drugs. (Under Review)

## Technical Reviews

Long J, Teetor P. 2019. *R Cookbook* (2nd ed.). O'Reilly Media Inc.

Luraschi J, Kuo K, Ruiz E. 2019. *Mastering Spark with R: The Complete Guide to Large-Scale Analysis and Modeling*. O'Reilly Media Inc.

## Conference Proceedings

**Turner D**, Hood K, Kuiper P, Lindquist J. (May 2018) "Sentiment Analysis in a Restricted Operational Environment" Proceedings of the *NATO Big Data and Artificial Intelligence for Military Decision Making*. Bordeaux, France 30MAY-1JUN2018 [Link](#)

Lindquist J, Peng D, Rochelle S, **Turner D**, and Warshaw M. (2018) Best Practices for Eliciting Public Perceptions in Conflict Environments – Working Group Summary, Proceedings of the MORS Special Session on Assessment of Named Operations, MacDill AFB, FL.

## Peer Reviewed Conference Abstracts

Ploch C, **Turner D**, Adams B, Hug A, Suby J, Palmer J, Thomas D, Bigelman K. Prediction of Cadet Basic Training Physical Performance Outcomes. *Experimental Biology* 2018.

## Works In Progress

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

Long JD, **Turner D**, (2019) R for the Student. Australian Economic Review.

Warnke Scott, **Turner D**, Costa G. (2019) The More The Classroom Changes, The More Baseball Remains The Same.

## Presentations

Pleuss James, **Turner D**, (2018). "The Effect of Academically Homogeneous Classrooms in Undergraduate Statistics Education." *Joint Statistical Meetings*, Vancouver, Canada.

**Turner D**, Pleuss J (2018). "Modeling Undergraduate Statistics Performance" *Joint Statistical Meetings*, Vancouver, Canada. [Link](#)

**Turner D**, Hood K, Kuiper P, Lindquist J (2018). "Machine Learning, Artificial Intelligence, and Sentiment Analysis in Restricted Operating Environments" *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) Assessment 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 (Partial List)

Assistant Director, Center for Data Analysis and Statistics (CDAS)	2016-2019
<b>United States Military Academy Clients</b>	2016-2019
Director of Admissions: Visualizing Minority Cadets by Congressional District	
Director of Admissions: Analysis of Altering Early Admissions Criteria for Corps Squad Athletes	
Public Affairs Office: Analysis of Social Media Trends Impacting the Academy <a href="#">Shiny App</a>	
STEM Middle School Outreach: Created Application To Support Communication Between Administrators and Parents. <a href="#">Shiny App</a>	
<b>Novartis:</b> 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-June 2018
<b>RWJ Barnabas Health:</b> Analysed Procalcitonin/Esophagectomy leak relationship.	2017-2019
<b>Bear Mountain Bakery:</b> Conducted analysis to help owners better understand their clients, products, and what conditions lead to a drops and spikes in sales.	February 2019

## Professional Memberships

Army Operations Research Society (AORS)	2019
Society for American Baseball Research (SABR)	2018
American Statistical Association (ASA)	2018
Military Operations Research Society (MORS)	2018
Pi-Mu-Epsilon	2016
Phi-Kappa-Phi	2016
New York Open Statistical Meetup	2016

## Faculty Development

Member | Department of Mathematical Sciences Book Club  
Member/Presenter | Bi-Weekly Statistics Lunch  
Member | Bayesian Data Analysis Seminar Series  
Presenter/Host | New Faculty Development Workshop

## Student Research

Co-Adviser, Honors Thesis.  
Martinez, Michael, Standardized Test Scores and the Relationship With Plebe Math Scores (2018/2019)  
Previte, Peter, "The Anti-Cycle" Data Analysis and Baseball (2018/2019)  
Nocosia, Gino, Modeling the 2019 NCAA Basketball Tournament (2018/2019)  
Palmer, James, ACT Impact of Admissions into the United States Military Academy (2018/2019)  
McCusker, Caroline, Prep School and Success at the United States Military Academy (2018/2019)  
Haley Conger, SAT Impact of Admissions into the United States Military Academy (2018/2019)  
Stockdale, John, Predicting Physical Performance Success at West Point (2017/2018)  
McDermott, Stephanie, A Statistical Analysis of MA104 Performance (2017/2018)

## Student Development Service

Head Officer In Charge, Veritas Forum	2017-2019
Head Officer In Charge, Sports Analytics Club	2017-2019
Leadership Mentor for 32 Cadets, Psychology for Leaders	2017-2019
Officer Representative, Officer Christian Fellowship (OCF) Club	2016-2019
Sponsor for 25 Cadets, Fourth Class Sponsorship Program	2016-2019
Academic Officer In Charge	2016-2019
Cadet Team Adviser, Interdisciplinary Contest in Modeling	2016

## Hosted Seminars

James Long, <i>"Modeling, Mistakes, and Madness"</i> , MA256/MA206 Course Lecture, April 2019	
David Dudrick, <i>"Nietzsche was Right: the Christian Grounding of Our Morality"</i> , Veritas Forum. February 2019	
Hadley Wickham, <i>Intrudiction to the Data Analysis</i> , Center for Data Analysis Speaker Series and MA256 Course Lecture. October 2018	
Max Kuhn, <i>Applied Predictive Modeling</i> , Center for Data Analysis Speaker Series and MA256/MA206 Course Lecture. September 2018	
David Robinson, <i>Text Analysis: The Tidy Way</i> , Center for Data Analysis Speaker Series and MA256 Course Lecture. April 2018	
Vince Vitale, <i>Why Suffering?</i> , Veritas Forum. February 2018	
James Long, <i>Picking an analysis tool: how to recognize the limits of your tools</i> , Center for Data Analysis Speaker Series and MA388 Course Lecture. February 2018	
Emily Robinson, <i>A/B Testing in the Wild</i> , Center for Data Analysis Speaker Series and MA206x Course Lecture. October 2017	
Jared Lander, <i>R For Everything</i> , Center for Data Analysis Speaker Series. September 2017	

## Institutional Service

The Junior Military Counsel to the Superintendent	2016-2019
Superintendent's Transition Team	2018
Incoming Class Summer Assessment Testing Volunteer	2018
Developer of curriculum and student selection for first USMA course in advanced introduction to statistics	2016-2019
Developer of curriculum and planning for Statistics and Data Science Major at USMA	2018-2019

## Professional Service

Peer Reviewer, Journal of Defense Modeling and Simulation	2019
Functional Area 49 Recruiting Committee	2018-Present

## 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
<b>Company Commander</b> , 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

Meritorious Service Medal

Army Commendation Medal (2 Oak Leaf Clusters)

Army Achievement Medal (1 Oak Leaf Cluster)