

# MAJ Bryan Adams

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Assistant Professor, United States Military Academy  
3126D Radiere Loop West Point, NY 10996  
✉ [bryan.adams@westpoint.edu](mailto:bryan.adams@westpoint.edu) ☎ 540-759-9339

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## Education

**M.S.**, Operations Research, *Virginia Polytechnic Institute and State University* 2017  
**B.S.**, Engineering Management, *The United States Military Academy* 2008

## Academic Experience

Assistant Professor, Department of Mathematical Sciences  
*United States Military Academy* 2019-Present  
Instructor, Department of Mathematical Sciences  
*United States Military Academy* 2017-2019

## Courses Written and Developed

**MA206Y** - Introduction to Data Analysis and Statistics 2019

## Courses Directed

**West Point**  
**MA206Y** - Introduction to Data Analysis and Statistics 2019  
**MA206** - (Assistant) Introduction to Probability and Statistics 2018-2019

## Courses Taught

**West Point**  
**MA206Y** - Introduction to Data Analysis and Statistics 2019  
**MA206** - Introduction to Probability and Statistics 2018 - 2019  
**MA103** - Mathematical Modeling and Introduction to Calculus 2017

## Refereed Publications

**Adams, B.**, Fidler, K., Demoës, N., Aguiar, E., Ducharme, S., McCullough, A., Moore, C., Thomas, D., Tudor-Locke, C. (2019) Cardiometabolic thresholds for peak 30-min cadence and steps/day, *Plos One*. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0219933>

Langan, R., Chi, H., **Adams, B.**, Sesti, S., Paul, S., Turner, A., August, D., Carpizo, E., Kennedy, T., Grandhi, M., Alexander, H., Libutti, S., Geffner, S. (2019) Outcomes following major oncologic operations for non-AIDS defining cancers in the HIV population: A matched comparison to the general population, *World of Surgery*. <https://link.springer.com/article/10.1007/s00268-019-05151-3>

**Adams, B.**, Clark, N., Cummiskey, K., Pleuss, J., Turner, D., Watts, K. (Manuscript Under Review) Causal inference in Introductory Statistics Courses. *Journal of Statistics Education*.

Blyman, K., Arney, K., **Adams, B.**, Hudson, T. (Abstract Accepted, Manuscript Under Review). Does your course effectively promote creativity?: Introducing the mathematical problem solving creativity rubric. *Journal of Humanistic Mathematics* - Creativity Special Issue.

**Adams, B.**, Cummiskey, K., Jonas, B. (Abstract Accepted). Developing multivariable thinking in introductory courses using tidyverse. *Journal of Statistics Education* - Computing in the Statistics and Data Science Curriculum Special Issue.

**Adams, B.**, Arney, K., Blyman, K., Bromberg, L., del Cuadro-Zimmerman, D. (Manuscript in Progress). Positive impacts of discovery learning assessments.

## Presentations

**Adams, B.**, Arney, K., Blyman, K., Bromberg, L., del Cuadro-Zimmerman, D. (2019). "Positive impacts of discovery learning assessments", *Joint Math Meetings*, Baltimore, MD.

**Adams, B.**, Thomas, D. (2019). "Determining mathematically based thresholds from wearable sensors: Insights from NHANES accelerometer data", *Joint Math Meetings*, Baltimore, MD.

**Adams, B.**, Galbreath, D., Corson, W. (2019). "Written Versus Digital Feedback; Which Improves Students Learning?", *Joint Math Meetings*, Baltimore, MD.

**Adams, B.** (2019). "Using Parking Lot Data Collection to Study Climate Science and Hot Cars in Introductory Math and Stats", *International Conference for Technology in Collegiate Mathematics*, Scottsdale, AZ.

**Adams, B.** (2018). "Using Shiny from RStudio to Teach, Motivate, and Evaluate a Classroom Created Social network", *International Conference for Technology in Collegiate Mathematics*, Washington D.C.

**Adams, B.**, Mogensen, M. (2018). "Interactive Applets with Shiny from RStudio", *International Conference for Technology in Collegiate Mathematics*, Washington D.C.

## Webinars Presented

**Adams, B.**, Cummiskey, K. "Causal Inference in Introductory Statistics Courses: Why, What, and How?" *CAUSEweb*. <https://www.causeweb.org/cause/webinar/teaching/2019-10>

## Professional Memberships

Epsilon-Mu-Eta	2008
New York Open Statistical Meetup	2017

## Faculty Development

Presenter | Center for Faculty Development  
Presenter/Host | New Faculty Development Workshop

## Student Research

Co-Adviser, Honors Thesis. Forrester, Jenna, "Determining Relationship Between Exercise and Depression."

Co-Adviser, Honors Thesis. Palmer, James, "Modifying the ACEER."

Co-Adviser, Honors Thesis. Owens, Amy, "Assessing the Reliability of Algorithms to Organize and Analyze Sequencing Data."

Co-Adviser, Senior Capstone. Murdock, Samuel, "Forecasting Key Developmental Positions in the 160th SOAR."

## Institutional and Student Developmental Service

Developer of curriculum for first USMA introductory course in data analysis and statistics 2019

Officer Representative, Hockey Team 2018-Present

## Community Service

Workshop Presenter for Center for Leadership and Diversity in Science, Technology, Engineering, and Math 2017-Present

Workshop presenter for Leadership Ethics and Diversity 2017-Present

Assistant Youth Hockey Coach 2017-Present

## Selected Military Service

Rose Barracks, GE 2013-2015

**Company Commander**, Eagle Troop, 2nd Squadron, 2nd Cavalry

Fort Bliss, TX 2010 - 2012

**Company Executive Officer**, HHC, 2-5 Infantry Battalion

**Platoon Leader**, C Company, 2-5 Infantry Battalion

## Deployments

Operation Enduring Freedom, Wardak, Afghanistan 2011-2012

Operation Enduring Freedom, Kandahar, Afghanistan 2013-2014

Operation Atlantic Resolve, Lithuania 2015

## Selected Military Awards

Bronze Star (2)

Meritorious Service Medal (1)

Army Commendation Medal (2)

Army Achievement Medal (3)

Ranger Tab

Expert Infantryman Badge

Combat Infantryman Badge

Airborne Badge

Air Assault Badge