

# MAJ Daniel Baller

---

Assistant Professor, United States Military Academy  
3213 Meigs Rd. West Point, NY 10996  
✉ [daniel.baller@westpoint.edu](mailto:daniel.baller@westpoint.edu) ☎ 503-702-6323

---

Updated: 29 June 2021

## Education

M.S., Operations Research, *Georgia Institute of Technology* 2018  
B.S., Operations Research with Honors, *The United States Military Academy* 2008

## Academic Experience

Director, Center for Data Analysis and Statistics (CDAS)  
*United States Military Academy* 2021-Present  
Assistant Professor, Department of Mathematical Sciences  
*United States Military Academy* 2020-Present  
Instructor, Department of Mathematical Sciences  
*United States Military Academy* 2018-2020

## Courses Directed

**United States Military Academy**  
MA206 - Introduction to Probability and Statistics 2020-2021  
MA206 - (Assistant) Introduction to Probability and Statistics 2020  
MA206 - Introduction to Probability and Statistics 2019

## Courses Taught

**United States Military Academy**  
MA206 - Introduction to Probability and Statistics 2019 - 2021  
MA103 - Mathematical Modeling and Introduction to Calculus 2018

## Refereed Publications

Thomas, D.M., Siegel, B., **Baller, D.**, Lindquist, J., Cready, G., Zervios, J.T., Nadglowski, J.F., Jr. and Kyle, T.K. (2020), Can the Participant Speak Beyond Likert? Free-Text Responses in COVID-19 Obesity Surveys. *Obesity*, 28: 2268-2271. <https://doi.org/10.1002/oby.23037>

**Baller, D.**, Thomas, D., Cummiskey, K., Bredlau, K., Schwartz, N., Orzechowski, K., Miller, R., Odibo, A., Shah, R., Salafia, C. (2019) Gestational growth trajectories derived from a dynamic fetal-placental scaling law, *Journal of the Royal Society Interface*, Impact factor: 3.224. <https://royalsocietypublishing.org/doi/10.1098/rsif.2019.0417>

Adams, B., **Baller, D.**, Jonas, B., Joseph, A., Cummiskey, K., Computational Skills for Multivariable Thinking in Introductory Statistics. *Journal of Statistics Education*. <https://doi.org/10.1080/10691898.2020.1852139>

## Presentations

**Baller, D.**, Thomas, D., Cummiskey, K., Bredlau, K., Schwartz, N., Orzechowski, K., Miller, R., Odibo, A., Shah, R., Salafia, C. (2019) Gestational growth trajectories derived from a dynamic fetal-placental scaling law, *MAA MathFest*.

## Conference Proceedings

Morin, T., Clark, N., **Baller, D.**, Watts, K. (2018) Estimating Phase Angle Percentiles in Elite Athletes, *Experimental Biology*. Abstract Published in *The FASEB Journal*, April, 2020, Impact factor: 5.391, presentation canceled due to COVID-19.

Aloma, Z., Hughes, D., **Baller, D.**, Thomas, D. (2018) The Pitching Problem: Proxy Measures for the Identification of Pitcher Fatigue, *Experimental Biology*. Abstract Published in *The FASEB Journal*, April, 2020, Impact factor: 5.391, presentation canceled due to COVID-19.

**Baller, D.**, Johnson, A., McCulloh, I., Schrieber, C., Carley, K. (2008) Specific Communication Network Measure Distribution Estimation I, *Sunbelt XXVIII, International Sunbelt Social Network Conference*. [https://assets.noviams.com/novi-file-uploads/insna/PDFs/Sunbelt\\_2008.pdf](https://assets.noviams.com/novi-file-uploads/insna/PDFs/Sunbelt_2008.pdf)

**Baller, D.**, Lospinoso, J. (2008) Specific Communication Network Measure Distribution Estimation II, *13th ICCRTS*. [http://www.dodccrp.org/events/13th\\_icrts\\_2008/CD/html/papers/251.pdf](http://www.dodccrp.org/events/13th_icrts_2008/CD/html/papers/251.pdf)

**Baller, D.**, Lospinoso, J., Johnson, A. (2008) An Empirical Method for the Evaluation of Dynamic Network Simulation Methods, *2008 International Conference on Information & Knowledge Engineering, IKE 2008*.

## Funding Awarded

Grant, Faculty Development Research Fund (FRF) 2019

## Professional Memberships

Mathematical Association of America	2019
Alpha Pi Mu - Industrial Engineering Honor Society	2018
Institute of Industrial and Systems Engineers (IISE)	2016-2018
Pi Mu Epsilon - Mathematics Honors Society	2007

## Faculty Development

Presenter | Department Bayesian Statistics Study Group 2019

## Student Research

Co-Adviser, Honors Thesis. Previte, Peter, "The Anti-Cycle in Baseball."

Co-Adviser, Honors Thesis. Morin, Thomas, "Estimating Phase Angle Percentiles in Elite Athletes."

Co-Adviser, Honors Thesis. Hurtubise, Jacob, "Analysis of Base Stealing – the fastest 3.3 seconds in sports."

Co-Adviser, Honors Thesis. Aloma, Zachary, "The Pitching Problem: Proxy Measures for the Identification of Pitcher Fatigue."

Co-Advisor, Honors Thesis. Seigel, Benjamin, "The hidden message in letters of recommendation: A natural language processing analysis of letters of recommendation at the United States Military Academy"

Co-Advisor, Honors Thesis. Rose, Frank, "Two-Stage Stochastic Optimization for C-UAS Acquisition"

Second Reader, Nicosia, Gino, "Modeling Madness."

Second Reader, Wilby, Bridget, “Forecasting Medical Screening Demand: Analysis of the Cadet Foreign Travel Medical Screening Process.” Hollis Award Winner 2019.  
 Second Reader, Cunningham, Nicholas, “Measuring the Effect of Writing Centers Using Statistical Methods”

## Institutional and Student Developmental Service

Reviewer for the American Journal of Clinical Nutrition (the top ranked journal for original research publications in nutrition) Impact Factor 6.77	2020-Present
Member, Dean’s Remote Teaching Distance Education Working Group (RTDEWG)	2020
Triage Judge, Interdisciplinary Contest in Modeling by COMAP	2020
Reviewer for PLOS ONE, Impact Factor 2.74	2019-Present
Military Intelligence Branch Mentor	2018-Present
IISE Graduate Chapter President, Georgia Institute of Technology	2017
Department Photographer	2018-Present

## Selected Military Service

Yongsan Garrison, KOR	2015-2016
<b>Assistant Operations Officer</b> , 501st MI BDE	
Camp Humphreys, KOR	2014-2015
<b>Company Commander</b> , A CO, 719th MI BN, 501st MI BDE	
Camp Casey, KOR	2013-2014
<b>Battalion Intelligence Officer</b> , 2-9 Infantry Battalion, 1 ABCT	

## Deployments

Operation Iraqi Freedom/Operation New Dawn, Iraq	2010
--	------

## Selected Awards

Meritorious Service Medal (1)	
Army Commendation Medal (3)	
Army Achievement Medal (1)	
Air Assault Badge	
Overseas Service Ribbon (3)	
Office of the Secretary of Defense Network Science Excellence Award – Best Student Project	
Network Science – United States Military Academy, West Point, New York,	2008