

MAJ Daniel Baller

Instructor, United States Military Academy
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Education

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

Academic Experience

Instructor, Department of Mathematical Sciences
United States Military Academy 2018-2020

Courses Directed

United States Military Academy
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 - 2020
MA103 - Mathematical Modeling and Introduction to Calculus 2018

Refereed Publications

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., (Manuscript Under Review) Computational Skills for Multivariable Thinking in Introductory Statistics. *Journal of Statistics Education Special Edition*. <https://www.overleaf.com/project/5db09b2889e75a00012e5fab>

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

Baller, D., Lospinoso, J. (2008) Specific Communication Network Measure Distribution Estimation II, *13th ICCRTS*. http://www.dodccrp.org/events/13th_iccrts_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."
 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.

Institutional and Student Developmental Service

Triage Judge, Interdisciplinary Contest in Modeling by COMAP 2020
 Journal Reviewer for PLOS ONE 2019-Present
 Military Intelligence Branch Mentor 2018-Present
 IISE Graduate Chapter President, Georgia Institute of Technology 2017
 Department Photographer 2018-Present

Selected Military Service

Camp Humphreys, KOR 2014-2015
Company Commander, A Co, 719th MI BDE, 501st MI BDE
 Camp Casey, KOR 2013-2014
Battalion Intelligence Officer, 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)

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