

MAJ Daniel Baller

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Updated: 23 March 2020

Education

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

Academic Experience

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

Courses Directed

United States Military Academy
MA206 - Introduction to Probability and Statistics 2020
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
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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
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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.

Second Reader, Cunningham, Nicholas, "Measuring the Effect of Writing Centers Using Statistical Methods"

Institutional and Student Developmental Service

Member, Dean's Remote Teaching Distance Education Working Group (RTDEWG)	2020
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
Department Photographer

2017
2018-Present

Selected Military Service

Yongsan Garrison, KOR

2015-2016

Assistant Operations Officer, 501st MI BDE

Camp Humphreys, KOR

2014-2015

Company Commander, A CO, 719th MI BN, 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)

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