

# CURRICULUM VITAE - FEREBEE TUNNO

(last updated May 4, 2023)

## Personal Data

Arkansas State University  
Department of Mathematics and Statistics  
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## Education

Ph.D., Clemson University, May 2009, Statistics  
M.S., University of Memphis, August 1999, Statistics  
B.S., Rhodes College, May 1996, Mathematics

## Professional Experience

Arkansas State University  
Associate Professor, 2015-present  
Assistant Professor, 2009-2015  
Applied Statistics I & II  
Linear Algebra  
Calculus I, II, & III  
Probability and Statistics I & II  
Probability (grad)  
Statistical Methods Using SAS (grad)  
Statistical Methods Using R (grad)  
Time Series Analysis (grad)  
Data Analysis I & II (grad)

Clemson University, Graduate Teaching Assistant, 2005-09  
Calculus I & II  
Business Calculus  
Statistics for Engineers

Tri-County Technical College, Part-time Instructor, 2005-09  
Advanced Statistics  
Differential Equations  
Calculus II

## Professional Memberships

American Statistical Association (ASA)  
Mathematical Association of America (MAA)  
Society for Industrial and Applied Mathematics (SIAM)

## **Contributed Talks**

“Arc Length Tests For Comparing The Dynamics Between GARCH Processes.” Department of Mathematics & Statistics Research Colloquium Series, Arkansas State University, March 2023.

“Evaluating the Gaussian Integral.” Department of Mathematics & Statistics Research Colloquium Series, Arkansas State University, November 2022.

“Introduction to GARCH Processes.” Department of Mathematics & Statistics Research Colloquium Series, Arkansas State University, December 2021.

“Bounded Area as a Measure of Volatility for Financial Time Series” with Latia Carraway. Department of Mathematics & Statistics Research Colloquium Series, Arkansas State University, October 2020.

“What Are Facts? How Math and Science Can Support Critical Thinking and Evidence-Based Decision-Making” with Martin Huss. General audience talk, Arkansas State University, February 2019.

“Signal Discrimination Without Denoising.” Joint Statistical Meetings, Boston, MA. August 2014.

“Bounded Area Tests for Comparing the Dynamics Between ARMA Processes.” 36th Conference on Stochastic Processes and Their Applications, University of Colorado Boulder, July 2013.

“Bounded Area Tests for Comparing the Dynamics Between ARMA Processes.” Department of Mathematics & Statistics Research Colloquium Series, Arkansas State University, February 2013.

“Using Arc Length to Cluster Stocks According to Risk.” Joint Statistical Meetings, San Diego, CA., August 2012.

“New Confidence Intervals for the AR(1) Parameter.” International Conference on Mathematics and Statistics, University of Memphis, May 2012.

“More on Arc Length Tests for Equivalent Autocovariances.” Joint Statistical Meetings, Vancouver, B.C., August 2010.

“Arc Length Tests for Equality of Autocovariances.” Joint Statistical Meetings, Denver, CO., August 2008.

## **Invited Talks**

“Signal Discrimination Without Denoising.” Department of Mathematics and Statistics, Mississippi State University, March 2015.

“Introduction To GARCH Processes.” Keynote speaker, Mathematics and Computer Science Undergraduate Symposium, Christian Brothers University, April 2022.

## **Student Supervision**

Ashton Erwin, Masters Thesis Advisor, Arkansas State University, May 2014.

Miranda Perry, Honors Thesis Advisor, Arkansas State University, February 2016 - December 2017.

Javier Ruiz, Research Collaborator, Arkansas State University, January 2022 - present.

## Grants and Fellowships

ADHE SURF Grant, Principal Investigator, January 1, 2017 - December 31, 2017.

ASU College of Sciences and Mathematics, Provost Faculty Development Award, May 16, 2015 - June 30, 2015.

NSF EPSCoR SURF Grant, Principal Investigator, January 15, 2011 - March 31, 2011.

NSF REU Grant, Statistical Consultant, Fall 2007.

NSF K-12 Fellowship, Teaching Fellow, Fall 2004 - Spring 2005.

## Publications

Gallagher, C., and Tunno, F. (2008) A Small Sample Confidence Interval for Autoregressive Parameters. *The Journal of Statistical Planning and Inference*, 138: 3858-3868.

Tunno, F., Gallagher, C., and Lund, R. (2012) Arc Length Tests for Equivalent Autocovariances. *Journal of Statistical Computation and Simulation*, 82: 1799-1812.

Tunno, F., and Erwin, A. (2013) New Confidence Intervals for the AR(1) Parameter. *Involve*, 6: 53-63.

Tunno, F. (2015) Bounded Area Tests for Comparing the Dynamics Between ARMA Processes. *Communications in Statistics: Theory and Methods*, 44: 3921-3941.

Wickramarachchi, T., and Tunno, F. (2015) Using Arc Length To Cluster Financial Time Series According To Risk. *Communications in Statistics: Case Studies, Data Analysis, and Applications*, 1: 217-225.

Tunno, F., and Perry, M. (2022) Signal Discrimination Without Denoising. *Communications in Statistics: Simulation and Computation*, 51(2): 626-646

Tunno, F., and Carraway, L. (2022) Bounded Area as a Measure of Volatility for Financial Time Series. *Communications in Statistics: Case Studies, Data Analysis, and Applications*, 8(2): 251-263.

## Submitted Papers

Tunno, F. and Ruiz, J. Arc Length Tests for Comparing the Dynamics Between GARCH Processes. *Communications in Statistics: Simulation and Computation*.

## Book Reviews

Tunno, F. (2015) Review of *Probability Theory in Finance: A Mathematical Guide to the Black-Scholes Formula* (2nd ed.) by Sean Dineen. *The American Mathematical Monthly*. 122: 809-812.

## **Textbooks**

Tunno, F. *Introduction to Matrices*. (Self-published on Amazon.)

Tunno, F. *Introduction to Advanced Probability*. (In progress.)

## **Journal Refereeing**

*Journal of Time Series Analysis*

## **Other Service**

Served as external reviewer for the M.S. Statistics program at the University of Houston at Clear Lake in March 2018.

## **References**

Dr. Amanda Lambertus, Department Chair (Arkansas State University)  
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Dr. Debra Ingram, Department Chair (Eastern Michigan University)  
dingra12@emich.edu, (734) 487-1444

Dr. Colin Gallagher, Professor (Clemson University)  
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Dr. Robert Lund, Department Chair (UC Santa Cruz)  
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