Kayode Olumoyin

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https://github.com/okayode
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Born   December 29, 1985 in Lagos, Nigeria

Research Interest
Data driven Scientific Computing and Mathematical Modeling, Deep Learning, and Numerical Partial Differential Equations

Experience

- Adjunct Faculty, University Studies, Middle Tennessee State University, Murfreesboro, TN
  Fall 2019

- Lecturer, University Studies, Middle Tennessee State University, Murfreesboro, TN
  Fall 2016 - Summer 2019

- Graduate Teaching Assistant, Bowling Green State University, Bowling Green, OH
  Fall 2013 - Spring 2016

- Graduate Teaching Assistant, Marshall University, Huntington, WV
  Fall 2011 - Spring 2013

Education

- Ph.D., Computational Science, Middle Tennessee State University, Murfreesboro, Tennessee, (*August 2017 - Ongoing*).

- M.A., Applied Mathematics & Scientific Computation, Bowling Green State University, Bowling Green, Ohio, August 2016.

- M.A., Mathematics, Marshall University, Huntington, West Virginia, May 2013.

- B.Sc., Mathematics, University of Agriculture, Abeokuta, Nigeria. January 2009

Classes Taught in the past

Calculus, Precalculus, College Algebra, Inferential Statistics

Some Graduate Classes taken in the past

Stochastic Differential Equations, Computer Systems (Bryant and O'Halleron), Numerical Ordinary Differential Equations, Numerical Partial Differential Equations (G.D. Smith, M. Heath), Real Analysis (G. Folland, W. Rudin), Measure theory and Functional Analysis (Royden), Partial Differential Equations and Functional Analysis (Evans, H. Brezis), Numerical Analysis.

Programming Skills

C, C++, Python, MPI, OpenMP, CUDA, PyTorch, TensorFlow, Fortran, Mathematica, Matlab

Awards

1. SIAM student travel award to attend 2020 SIAM conference on Mathematics of Data Science (MDS20), May 5-7, 2020, Cincinnati, Ohio.

2. Winifred O. Stone Presidential Graduate Scholarship Award for Diversity Enhancement, 2013-2014 & 2014 - 2015, Bowling Green State University.

3. First Position, National Mathematics Competition for University Students (NAMCUS 2008), Abuja, Nigeria.

Publication

1. *Solutions of Dynamic Equations on Time Scales with Jumps.* Master's thesis, Marshall University, May 2013.

Conference Presentation

1. PDE Based Neural Network Approach Using Noisy Data in Facial recognition. SIAM conference on Mathematics of Data Science (MDS20), May 5-7, 2020, Cincinnati, OH.

2. *The Marshall-Simpson Differential Analyzer Project: Mechanical Interpretations of Mathematical Equations* (co-presented with Dr. Bonita Lawrence and Molly Peterson), Simpson College, Iowa, March 18, 2013.

3. *Generalization of First Order Linear Differential and Difference Equations.* 40th Annual Mathematics and Statistics Conference, Miami University, Oxford, Ohio, September, 2012.

Conference Attended

1. MANNA (Modeling, Analysis and Numerics for Nonlocal Applications), Santa Fe, New Mexico, December 11 - 15, 2017.

2. Informal Analysis Seminar, Kent State University, Ohio, April 11 - 13, 2014.

3. 40th Annual Mathematics and Statistics Conference, Miami University, Oxford, Ohio, September 2012.

4. 96th Annual Meeting of the Mathematical Association of America, Ohio Section, Spring 2012, Xavier University, Cincinnati, Ohio, April 2012.

5. The 31st Southeastern-Atlantic Regional Conference on Differential Equations, Georgia Southern University, Georgia, September 2011.

Professional Membership

SIAM, Pi Mu Epsilon (West Virginia beta)

Refrences

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Dr. Bonita A. Lawrence
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