

CURRICULUM VITAE

PERSONAL DATA:

Name:	MADUBUEZE, Chinwendu Emilian
Date of Birth:	28 th April, 1983.
Place of Birth:	Aba
Nationality:	Nigeria
Permanent Home Address:	Late Edwin Anadi house Ugwudunu Village Neni Town, Anambra
Correspondence Address:	Department of Mathematics/Statistics/Computer Science, University of Agriculture, Makurdi, Nigeria
Marital Status:	Married
Gender:	Female
Position:	Lecturer II

EDUCATIONAL INSTITUTION ATTENDED WITH DATES

University Of Agriculture, Makurdi	2013 - 2018
University of Benin, Benin City	2010 - 2012
University of Benin, Benin City	2004 – 2008
Community Girl's Secondary School, Umungasi, Aba	1995 – 2001
College Primary School, Aba, Abia State	1989 – 1995

QUALIFICATION OBTAINED WITH DATES

Ph.D. in Mathematics	May, 2018
Masters of Science (M.Sc.) in Applied Mathematics	September, 2012
Bachelor of Science (B.Sc.) in Industrial Mathematics (First Class Honours)	June, 2009
National Examination Council (NECO) Certificate	June, 2001
First School Leaving Certificate	July, 1995

PRIZES RECEIVED

- Best graduating student in Department of Industrial Mathematics, University of Benin, Benin City (2007/2008) session.

- Best Student in the 300 Level of the Department of Industrial Mathematics, University of Benin, Benin City (2006/2007) session
- Best Student in the 200 Level of the Department of Industrial Mathematics, University of Benin, Benin City (2005/2006) session.
- The most famous scholar (Female) of the National Association of Mathematics Students of Nigeria (NAMSN), University of Benin Chapter, Benin City, Edo State (2007/2008)
- Best in Mathematics in Senior Secondary three of Community Girl's Secondary School, Umungasi, Aba (2000/2001)
- Best in Mathematics in Junior Secondary School One of Community Girls' Secondary School, Umungasi, Aba (1995/1996).

SCHOLARSHIP AND TRAVEL GRANTS RECEIVED

- Travel Grants for AIMS South Africa – IWR “Advances in Mathematical Optimization” Compact Course and Summer School, 2018.
- Travel Grant for 6th Heidelberg laureate Forum, Heidelberg, Germany, 2018.
- Travel grants for GreifOlution: 1st Greifswald Summer School on Mathematics Evolution, Greifswald, Germany, 2018.
- Travel Grant for Hands-On Research in Complex Systems School, International Centre for Theoretical Physics (ICTP), Trieste, Italy, 2018.
- Travel grant for Mathematical Models of Climate Variability, Environmental Changes and Infectious Diseases, Workshop, International Centre for Theoretical Physics (ICTP), Trieste, Italy, 2017.
- International Centre for Theoretical Physics (ICTP) Travel grant for Impact of Environmental Changes on Infectious Diseases (IECID) 2017 Conference
- Travel Grant for CIMPA-CAMEROON: Mathematical and Computer Models in Epidemiology, Ecology and Agronomy, 2016.
- Travel Grant for Global Change Impact on Disease and Alien Species Expansion Workshop, AIMS South Africa, 2016.
- CIMPA Travel Grant for Annual Congress of the Southern Africa Mathematical Sciences Association (SAMSA), 2016.
- Travel Grant for CIMPA-SENEGAL SCHOOL: Probabilistic models in epidemiology Ziguinchor, 2015.
- Neni Education Foundation Award of Post Graduate Scholarship M.Sc. (2011)

COMPUTER LITERACY

Proficient in: MatLab Software Package, Microsoft Office and Mathematica software Package.

TEACHING EXPERIENCE AND STUDENT SUPERVISION WITH DATES

Teaching Experience

- University of Agriculture, Makurdi. Department of Mathematics, Statistics and Computer Science,
22nd May 2012 till date

- 2017/2018
 - Lecturing 100 level students Foundational Mathematics
 - Lecturing 200 level students Linear Algebra I
 - Lecturing 400 level students Ordinary Differential Equations III
- 2016/2017 Session
 - Lectured 100 level students Calculus
 - Lectured 300 level students Metric Space
 - Lectured 200 level students Linear Algebra I
 - Lectured 300 level students Vector and Tensor Analysis
 - Lectured 300 level Sandwich students Metric Space
 - Lectured 300 level Sandwich students Vector Mechanics
 - Lectured MSc. Mathematics students Biomathematics
- 2015/2016 Session
 - Lectured 200 level students Linear Algebra I
 - Lectured 300 level students Vector and Tensor Analysis
- 2014/2015 Session
 - Lectured 100 students level Calculus
 - Lectured 300 level students Metric Space
 - Lectured 200 level students Linear Algebra I
 - Lectured 300 level students Complex Analysis
 - Lectured 300 level Sandwich students Metric Space
 - Lectured 300 level Sandwich students Vector Mechanics
- 2013/2014 Session
 - Lectured 300 level Sandwich students Metric Space
 - Lectured Postgraduate diploma Mathematics Mathematical Modeling
 - Lectured 100 level students Calculus
 - Lectured 400 level students Ordinary Differential Equation III
 - Lectured 200 level students Linear Algebra I
 - Lectured 300 level students Complex Analysis
- 2012/2013 Session
 - Lectured 200 level students Linear Algebra I
 - Lectured 300 level students Metric Space
 - Lectured 400 level students Ordinary Differential Equation III
- 2011/2012 Session
 - Lectured 200 Level students Ordinary Differential Equation I
- Federal University of Technology, Yola Nov. 2009 – Oct. 2010
 - Department of Mathematics and Computer Science
 - Lectured 100 Level, 200 Level Students and Pre-Degree Students Mathematics
 - Lectured Diploma Students Statistics
 - Department of Statistics and Operations Research
 - Lectured 200 Level students Statistics
- Mother of Redeemer Catholic Sec. School, Effurun Feb. 2009 - Oct. 2009
 - Taught Senior Secondary Students (SS1, SS2 and SS3) Further Mathematics

Student Supervision

- 2017/2018 session – supervising two undergraduates in their final year projects
- 2016/2017 session – supervised five undergraduates in their final year projects
- 2016/2017 Session – supervising one Postgraduate Diploma student
- 2016/2017 Session – supervising one M. Sc. student
- 2015/2016 Session – supervised nine undergraduates in their final year projects
- 2014/2015 Session – supervised seven undergraduates in their final year projects
- 2013/2014 Session – supervised one PGD student
- 2013/2014 Session – supervised eight undergraduates in their final year projects
- 2012/2013 Session - supervised ten undergraduates in their final year projects
- 2011/2012 Session – supervised an undergraduate in his final year project

SERVICE TO THE UNIVERSITY

- Students Industrial Work Experience Scheme (SIWES) Departmental coordinator
- Registering Officer for 400 level Computer Science students first semester 2017/2018
- Registering Officer for 300 level Computer Science students first semester 2016/2017
- Registering Officer for 400 level Mathematics students first semester 2015/2016
- 100 level Mathematics Course Adviser

PUBLICATIONS

- Chinwendu E. Madubueze** and Remigius O. Ajah. Approximate Series Solution of Ebola Virus Disease Model using Homotopy Analysis Method. *Journal of Mathematical and Fundamental Sciences*. Under Review.
- Chinwendu E. Madubueze**, Anande R. Kimbir and Terhemen Aboiyar. Global Stability of Ebola virus disease with contact tracing and quarantine. *Application and Applied Mathematics: An international Journal*, Volume **13**, Issue **1**, 2018.
- Chinwendu Emilian Madubueze**, Anande Richard Kimbir and Terhemen Aboiyar. Sensitivity Analysis and Optimal Control model of Ebola virus disease with Contact Tracing. *World Journal of Modelling and Simulation*. Accepted for publication.
- C. E. Madubueze**, A. R. Kimbir, E. S. Onah and T. Aboiyar. Existence and Uniqueness of Solution of Ebola Virus Disease Model with Contact Tracing and Quarantine as Controls. *Nigerian Journal of Mathematics and applications*. Volume **25**, (2016), 111 - 121.
- C. E. Madubueze**, A. R. Kimbir, E. S. Onah and T. Aboiyar. Analysis of a Mathematics Model of Ebla Virus Disease with Contact Tracing and Quarantine Measures. *Transaction Journal of the Nigerian Association of Mathematical Physics*. Volume 3, (January 2017) pp 75 - 88.
- Emmanuella N. Mbazulike, Sunday S. Isah and **Chinwendu E. Madubueze**. In-vivo Models of HIV with Reversion of Resting Infected CD4⁺ Cells. *Transaction Journal of the Nigerian Association of Mathematical Physics*. Volume 3, (January 2017), 65 - 74.
- Enobong E. Joshua, Ekemini T. Akpan, Olukayode Adebimpe and **Chinwendu E. Madubueze** (2017). Existence and Uniqueness of Positive Periodic Solution of an Extended Rosenzweig-Mac

- Arthur Model via Brouwer's Topological Degree. *British Journal of Mathematics and Computer Science*. 20(4): 1-10.
- viii. Enobong E. Joshua, Ekemini T. Akpan, and **Chinwendu E. Madubueze** (2016). Hopf-bifurcation Limit Cycles of an Extended Rosenzweig-MacArthur Model. *Journal of Mathematics Research*. Volume 8, No. 3, page 22 – 32.
- ix. **Madubueze, C.E.**, Batubo, T.B., and Ejeh, E.P. (2015). The Effect of Screening on Multiple Sexual Partners for the Dynamics of Human Papillomavirus Transmission. *Mathematical Theory and Modeling*. Volume 5, No. 9, Page 43 – 53.
- x. Ochoche, M.J., **Madubueze, C.E.**, and Akaabo, T.B. (2015). A Mathematical Model on the Control of Cholera: Hygiene Consciousness as a Strategy. *Journal of Mathematical and Computational Science*. Volume 5, No. 2, page 172-187.
- xi. **Madubueze, C.E.**, Nwaokolo, A. F., and Gweryina, I.R. (2015). Modeling the Spread of HIV/AIDS Transmission in the Presence of Irresponsible Infective and Vertical Transmission. *Journal of Mathematical and Computational Science*. Volume 5, No. 1, page 72 - 90, 2015.
- xii. **Madubueze, C.E.**, and Nwaokolo, A.M. (2014). A Mathematical Model to Study the Effect of Renewal and Reversion of Inactive Christians on Church Growth. *International Journal of Mathematics Trends and Technology*. Volume 14, Number 2, page 93 -105.
- xiii. **Madubueze, C.E.**, Ochugboju, A.O., and Nwaokolo, M.A. (2014). A Review on Basic Reproduction Number and its Applications in Epidemiology. *European Journal of Scientific Research*. Volume 126. No. 2, page 178 -190.
- xiv. Oghre, E.O., and **Madubueze, C.E.** (2014). Application of Homotopy Analysis Method to Flow of Viscoelastic Fluid over a Stretching Sheet. *The Journal of the Mathematical Association of Nigeria*. Vol. 41, No. 2, page 9 - 18, 2014.
- xv. Oghre, E.O., and **Madubueze, C.E.** (2013). Homotopy Analysis Method Solution of SIR model. *Journal of the Nigerian Association of Mathematical Physics*. Volume 23 (March, 2013), page 571 - 580.
- xvi. **Obianadi, C.E.**, and Mbegbu, J.I. (2010). A Comparative Study on Lognormal and Gamma Distributions for Life and Reliability of Kamag Machine. *Journal of the Nigerian Association of Mathematical Physics*. Volume 17 (November, 2010), page 89 - 94.

MEMBERSHIPS OF LEARNED SOCIETIES AND CONFERENCES ATTENDED

- The Nigerian Association of Mathematical Physics
- Southern Africa Mathematical Sciences Association
- The Nigerian Mathematical Society (NMS)
- Nigerian Women in Mathematics
- European Mathematics Society (EMS)
- Organization of Women in Science for Developing Countries (OWSD)
- Association for Women in Mathematics (AWM)
- Society for Industrial and Applied Mathematics (SIAM)

RESEARCH SCHOOL AND WORKSHOP ATTENDED

- AIMS South Africa – IWR “Advances in Mathematical Optimization” Compact Course and Summer School, 10 – 21 December, 2018.
- 6th Heidelberg laureate Forum, Heidelberg, Germany, September 23 – 28, 2018.
- GreifOolution: 1st Greifswald Summer School on Mathematics Evolution, Greifswald, Germany, September 16 – 22, 2018.
- Hands-On Research in Complex Systems School, International Centre for Theoretical Physics (ICTP), Trieste, Italy, 15 – 27, July, 2018.
- Mathematical Models of Climate Variability, Environmental Changes and Infectious Diseases, International Centre for Theoretical Physics (ICTP), Trieste, Italy, 8 – 19 May, 2017.
- CIMPA-CAMEROON: Mathematical and Computer Models in Epidemiology, Ecology and Agronomy, September 19 – September 30, 2016.
- 2016 African Mathematical School (AMS), Landmark University, Omu-Aran, Kwara, 1st – 12th August, 2016.
- Global Change Impact on Disease and Alien Species Expansion Workshop, AIMS South Africa, May 2 – 6, 2016.
- CIMPA-SENEGAL SCHOOL: Probabilistic models in epidemiology Ziguinchor, Dec 5 – Dec 16, 2015.

MATHEMATICS COMPETITION ATTENDED

- First Mathematics Competition held at Catholic Diocese of Makurdi, St. Dominick’s High School Makurdi, 21st October, 2016.

CONFERENCES ATTENDED

- Poster presentation at GreifOolution: 1st Greifswald Summer School on Mathematics Evolution, Greifswald, Germany, September 16 – 22, 2018.
- Impact of Environmental Changes on Infectious Diseases (IECID) 2017, ICTP Trieste, Italy, 17th – 19th May, 2017.
- 36th Annual Conference of the Nigerian Mathematical Society, Federal University of Agriculture, 2017.
- Annual Congress of the Southern Africa Mathematical Sciences Association SAMSA 2016, 21 – 24 November 2016, University of Pretoria, South Africa.
- The Nigerian Association of Mathematical Physics 25th ANNUAL COLLOQUIUM AND CONGRESS, Michael Okpara University of Agriculture, Umudike, 1st – 4th, 2016.
- 17th International Conference on Mathematics and Statistics, Cape Town, South Africa, 2015.
- Mathematical Analysis and Optimization Research Group. 2nd Annual International Conference on Mathematical Analysis and Optimization: Theory and Applications (ICAPTA 2015), University of Lagos, Nigeria, March 16 – 25, 2015.
- The Nigerian Association of Mathematical Physics 25th ANNUAL COLLOQUIUM AND CONGRESS, Olabisi Onabanjo University, Ago-Iwoye, Ogun State, 4th – 7th November, 2014.
- The Nigerian Association of Mathematical Physics 23rd ANNUAL COLLOQUIUM AND CONGRESS, Redeemer’s University, Redemption City, Ogun State, Nigeria, 6th – 9th November, 2012.

- The Nigerian Association of Mathematical Physics 22nd ANNUAL COLLOQUIUM AND CONGRESS, Ekiti State University, Ado-Ekiti, Nigeria, 1st – 4th, November, 2011.

REFEREES

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