

# Curriculum Vitae

## Personal information

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**Name:** AGBEBAKU, Dennis Ferdinand  
**Nationality:** Nigerian  
**State of Origin:** Edo State, Nigeria  
**Place of Birth:** Enwan, Nigeria  
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## EDUCATIONAL INSTITUTIONS ATTENDED WITH QUALIFICATIONS OBTAINED

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Name of Institution	Date Attended		Qualification(s) Obtained	Graduation Date
	From	To		
University of Pretoria, Hatfield, South Africa	2012	2015	PhD(Mathematical sciences)	2017
University of Pretoria, Hatfield, South Africa	2009	2011	M. Sc.(Mathematics)	2012
University of Nigeria, Nsukka, Nigeria	2000	2006	M. Sc.(Mathematics)	2007
Ogun State University, Ago Iwoye, Nigeria	1992	1998	B. Sc.(Mathematics)	1998
Yewa High School, Lagos, Nigeria	1981	1988	WASC	1988

## TEACHING EXPERIENCES WITH DATES

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Establishment	Position	Duties	Date
University of Nigeria, Nsukka Nigeria	Lecturer II	Lecturing	2006 till date
Department of Mathematics and Statistics, Tshwane University of Technology, Pretoria Campus.	Lecturer (Part time)	Teaching and academic assessment of students (EMT 451T , MAT 171T)	21/08/2014 – 12/12/2014
Department of Mathematics and Statistics, Tshwane University of Technology, Pretoria Campus.	Lecturer (Part time)	Teaching and academic assessment of diploma students	01/01/2014 – 30/06/2014
Department of Mathematics and Applied mathematics, University of Pretoria, Hatfield, Pretoria South Africa	Assistant Lecturer	Taking practical classes, marking and general assistant.	01/02/2010 – 30/11/2015
University of Pretoria, Engineering	Assistant Lecturer	Taking practical	01/01/2012 – 30/11/2013

Augmented program(ENGAGED)		classes, marking and general assistant.	
Department of Mathematics and Applied mathematics, University of Pretoria, Hatfield, Pretoria South Africa	Teaching Assistant	Taking practical classes, marking and general assistant.	01/02/2010 – 30/11/2012
University of Nigeria, Nsukka Nigeria	Lecturer II	Lecturing	2006 till date
University of Nigeria, Nsukka, Nigeria	Assistant Lecturer	Lecturing	2005 -2006
University of Nigeria, Nsukka, Nigeria	Graduate Assistant	Teaching Assistant	2001 – 2006
Ogun State University, Ago Iwoye, Nigeria.	NYSC	Teaching Assistant	1998 – 1999
Principal Tutors, Lagos, Nigeria	Teacher	Mathematics teacher	1999 – 2000

### **PEER-REVEIWED JOURNAL PUBLICATIONS**

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1. **Agbebaku, Dennis Ferdinand**, and Jan Harm van der Walt. "[Differential algebras of generalised functions with dense singularities.](#)" *Quaestiones Mathematicae*, 41.2 (2018): 283-301.  
**Published online:** <https://www.tandfonline.com/doi/abs/10.2989/16073606.2017.1377778>  
**Impact factor:** 0.810 (Thompson Reuters IF)
2. **Dennis Ferdinand Agbebaku** and Jan Harm Van der Walt. "[The order completion method: A differential algebraic representation](#)" *Novi sad Journal of Mathematics* , 47(1), (2017): 17 – 47.  
**Published online:** <http://elib.mi.sanu.ac.rs/files/journals/nsjom/85/nsjomn85p17-47.pdf>  
**Impact factor:** 0.151 (SCImagoJR)
3. Shehu, Yekini, and **Dennis F. Agbebaku**. "[On split inclusion problem and fixed point problem for multi-valued mappings.](#)" *Computational and Applied Mathematics* (2017): 1-18.  
**Published online:** <https://link.springer.com/article/10.1007/s40314-017-0426-0>  
**Impact factor:** 0.802(Thompson Reuters IF)
4. S.H.Khan, **D.Agbebaku**, M.Abbas. "[Three step iteration process for two multivalued nonexpansive maps in hyperbolic type spaces.](#)" *Journal of Mathematical Extension* 10 (2016): 87-109.  
**Published online:** <http://ijmex.com/index.php/ijmex/article/view/487/296>  
**Impact factor:** 0.876(Global Impact Factor)
5. R. Anguelov, **D. Agbebaku**, and JH van der Walt. [Hausdorff continuous solutions of conservation laws.](#) In *AIP Conference Proceedings*, volume 1487, page 151, (2012).  
**Published online:** <https://aip.scitation.org/doi/abs/10.1063/1.4758953>  
**Impact factor:** 0.162(SCImagoJR)

## **CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED WITH PAPERS PRESENTED**

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1. T. Tivde, D. Sarki, and **D. Agbebaku** “MATLAB and MAPLE : tools for Graphical Analysis of Mathematical models” 2<sup>nd</sup> International workshop on Mathematical modeling and simulations (IWMMAS) Held at University of Nigeria Nsukka, from 17<sup>th</sup> – 24<sup>th</sup> September, 2017  
**Category:** Resource person.
2. **D F Agbebaku** Differential Algebras of generalized functions, 36<sup>th</sup> Annual conference of the Nigerian Mathematical society(NMS), held at University of Agriculture Makurdi, 9 -13, May 2017.  
**Category:** Abstract – Oral Presentation
3. **DF Agbebaku** and Shehu Yekini. Split variational inclusion problem and fixed point problem for multi-valued nonexpansive mappings, Annual congress of the Southern African Mathematical Sciences Association (SAMSA), held at University of Pretoria, Hatfield South Africa. (2016).  
**Category:** Abstract – Oral Presentation
4. T. Tivde, D. Sarki, and **D. Agbebaku** “Numerical Analysis and software for Graphical Analysis of models” 1<sup>st</sup> International workshop on Mathematical modeling and simulations (IWMMAS) Held at University of Nigeria Nsukka, from 25<sup>th</sup> September – 2<sup>nd</sup> October, 2016.  
**Category:** Resource person
5. C. L Ejikeme, M. O. Oyesanya, **D. F Agbebaku** and M. B. Okofu, “Analysis of nonlinear fractional Duffing oscillator using Homotopy analysis method (HAM)” Annual congress of the Southern African Mathematical Sciences Association (SAMSA), held at University of Pretoria, Hatfield South Africa. (2016).  
**Category:** Abstract – Oral Presentation
6. **DF Agbebaku** and JH van der Walt. Differential Algebras with Dense Singularities  
58<sup>th</sup> annual conference of South African Mathematics Society (SAMS) held at University of Witwatersrand, Johannesburg, South African. (2015).  
**Category:** Abstract – Oral Presentation
7. **DF Agbebaku** and JH van der Walt. Chains of generalized solutions of partial differential equations  
57<sup>th</sup> annual conference of South African Mathematics Society (SAMS) held at University of South Africa Florida campus, Johannesburg , South African. (2014).  
**Category:** Abstract – Oral Presentation.
8. JH. van der Walt, **DF Agbebaku** and R Anguelov: *Minimal semi-continuous solutions of conservation laws.*  
Joint AMS/SAMS congress/54<sup>th</sup> annual conference of SAMS held at Nelson Mandela Metropolitan University Port Elizabeth, South African. (2011).  
**Category:** Abstract – Oral Presentation

## **WORKSHOP AND LEARNED SOCIETY ACTIVITIES ATENDED WITH DATES**

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1. 1<sup>ST</sup> International workshop on Mathematical modeling and simulations (IWMMAS) Held at University of Nigeria Nsukka, Date : 28<sup>th</sup> September to 2<sup>nd</sup> October 2016

2. 13<sup>th</sup> Edward Bouchet Workshop on Functional Analysis, Differential Equations and Applications held at University of Ghana, Legon, Accra, Ghana. (July 2007).
3. Workshop on Mathematical Analysis and Optimization held at Ebonyi State University, Abakiliki, Nigeria. (November 2006)
4. School of Non-linear Differential Equation held at ICTP, Trieste, Italy. (October 2006).
5. International Workshop on New Trends in Mathematical and Computer Sciences with Applications to Real Life Problems held at Covenant University, Ota Ogun state Nigeria. (June 2006)

### ***DEGREE PROJECT/THESIS WITH DATES***

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1. **D. F. Agbebaku**, “*Nonlinear Theories of generalized functions*”, PhD Thesis, University of Pretoria, Hatfield South Africa. 2015
2. **D.F. Agbebaku**, “*Solution of conservation laws via convergence space completion*”. MSc Thesis, University of Pretoria, 2011.
3. **D. F. Agbebaku**, “*Applications of Topological Degree Methods in the Solvability of Boundary Value Problems*”. M Sc. Project, University of Nigeria, Nsukka, Nigeria (2005).
4. **D. F. Agbebaku**, *Stability of an N-bar System*. B. Sc. Project, Ogun State University, Ago Iwoye, Nigeria (1998).

### ***MEMBERSHIP IN ACADEMIC SOCIETIES***

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<b>Society/Organization</b>	<b>Position</b>	<b>Dates</b>
Society for Industrial and Applied Mathematics	Student Member	2017
Golden Key International Honour Society	Member	October 2012
South African Mathematical Society(SAMS)	Member	November 2010
Nigerian Mathematical Society (NMS)	Member	2004

### ***HONOURS AND AWARDS WITH DATES***

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<b>Award</b>	<b>Organization giving the Award</b>	<b>Date of award</b>
Laureate 2012 for Education Innovation	Department of Education Innovation University of Pretoria, South Africa	October 2012

### ***RESEARCH AREA OF INTEREST***

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Main Area	Sub-area	2010 MSC Classification
Partial Differential Equations	Generalized solutions, weak solution, Algebraic representation of Solutions	35D30
Generalized functions for	Nonstandard analysis, Algebraic theories of	46F30,

nonlinear analysis	generalized functions	46F25
Nonlinear Operator Theory	Monotone operators, Accretive operators, set-valued operators, contractive type operators, fixed points theory, Degree Theory, etc	47HXX, 47JXX
General topology	Convergence in general topology, convergence spaces	54A20, 54E15

### ***REFEREES AND SUPERVISORS***

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1. Prof. M. O. Oyesanya  
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2. Prof F. I. Ochor  
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