

Toka Diagana, PhD

Mailing Address

Department of Mathematical Sciences
University of Alabama in Huntsville
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Huntsville, AL 35899
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Education

PhD, Mathematics, [Claude Bernard University - Lyon 1](#), France, January 7, 1999

DEA (M.S.), Mathematics, [Claude Bernard University - Lyon 1](#), France, July 1995

Employment

Professor & Chair, University of Alabama in Huntsville (UAH), 2018–present

Professor, Howard University (HU), Washington DC, 2007-2018

Associate Professor, Howard University (HU), Washington DC, 2004–2007

Assistant Professor, Howard University (HU), Washington DC, 2002–2004

Lecturer, Howard University (HU), Washington DC, 2000–2002

Administrative and Leadership Positions

Mathematics Program Advisory Committee, University of Sharjah (UAE), 2022-2024

Ibni Oumar Mahamat Saleh Prize Selection Committee (CIMPA), 2009–2013, 2021–2022

AMS Centennial Fellowship Selection Committee, 2020-2022

College of Science Dean Search Committee, UAH, 2019-2020

Chair, Department of Mathematical Sciences, UAH, 2018-present

President of PROMATH, 2017-2019

Member of the Academic Policy Standard and Education Committee (HU), 2013–2017

AMS Committee on Human Rights of Mathematicians, 2011–2013

AMS Books and Journal Donations Steering Committee, 2010–2013

HU Math Department Executive Committee (Elected), 2008–2012, 2014-2017

HU Math Department Hiring Committee, 2008–2009–2010, 2014-2015

HU Math Department Representative at MSRI, 2007–2010

Chairman of the Graduate Committee, HU Math Department, 2006–2012, 2015-2017

Director of Graduate Studies, HU Math Department, 2006–2012, 2015-2017

Graduate Admission Committee, HU Math Department, 2006–2012, 2014-2017

Graduate Scheduling Committee, HU Math Department, 2006–2012, 2015-2017

Graduate Faculty, HU, 2002–2018

Reviewer for HU FAE Grant Program, 2002–2008

Honors-Awards

Faculty Excellence Award, Howard University, April 2016

The African Academy of Sciences Fellow (Elected), 2009–present

Prix Chinguitt, 2006

Emerging Scholar Award, Howard University, April 2006

Merit-Based Award, Howard University, 2003–2011

Membership

American Mathematical Society Membership, 2000–present

International Society of Difference Equations, 2008-present

Research Activities (2015-2022)

Visiting professor at the University of Lorraine, Metz, France, July 25-31, 2022

Attended a conference on “Difference Equations” at CentraleSupélec, France, July 16-24, 2022

Visited 4 universities and Institutes in Abidjan/Yamoussoukro, Ivory Coast, June 14-18, 2022

Visited the University Cheikh Anta Diop of Dakar, Senegal, June 12-14, 2022

Collaborated with my PhD candidate at the University of Nouakchott, May-June, 2022

Visiting Professor at the University of Sharjah (UAE), March 14-20, 2022.

Collaborated with Dr. Ramaroson from Howard University, February 16-20, 2022.

Visiting Professor at the West Georgia University, February 2-5, 2022.

Visiting Professor at the University of Lorraine, Metz, France, December 14-18, 2021.

Co-Organized an NSF-CBMS Conference, Univ. Alabama in Huntsville, August 2-6, 2021.

Joint Mathematics Meetings, Denver, Colorado, January 15-18, 2020

PhD defense at the University Cadi Ayyad, Marrakesh, Morocco, June 17, 2019.

Visiting Professor, The University of Cadi Ayyad, Morocco, June 15-23, 2019.

Colloquium talk, Alabama A & M University on April 17, 2019.

PhD defense of my student at Howard University, March 20, 2019.

Colloquium talk, University of Alabama at Birmingham, March 1, 2019.

Visiting Professor, KAUST, KSA, December 19-22, 2018

Visiting Professor, KFUPM, Dhahran, KSA, December 9-26, 2018

PhD defense (through Skype), KFUPM, Dhahran, KSA, December 12, 2018.

The 2018 Field of Dreams Conference in Saint Louis, Missouri, November 1-4, 2018.

Visiting Professor, University of Manitoba, Winnipeg, Canada, October 24-27, 2018.

Visiting Professor, University of West Georgia, Carrollton, USA, April 23-25, 2018

Visiting Professor, University of Nouakchott, Mauritania, March 6-25, 2018

Visiting Professor, KAUST, KSA, January 21-28, 2018

Visiting Professor, KFUPM, Dhahran, KSA, November 17, 2017 - January 21, 2018

Visiting Professor, University of Abomey-Calavi, Cotonou, Benin, July-August 2017

Colloquium talk, University of West Georgia, Carrolton, USA, April 2017

Prix Yahya Ould Hamidoune, The University of Nouakchott, Mauritania, March 2017

Visiting Professor, KFUPM, Dhahran, KSA, December 2016 - January 2017

Visiting Professor, The King Abdulaziz University, Jeddah, KSA, December 2016

Visiting Professor, AIMS-Senegal, Mbour, Senegal, November 2016

Visiting Professor, University of Abomey-Calavi, Cotonou, Benin, October 2016

Visiting Professor, Faculté des Sciences de Bamako, Mali, May 2016

Visiting Professor, KFUPM, Dhahran, KSA, December 2015

Visiting Professor, University of Cadi Ayyad, Marrakech, Morocco, November 2015

Visiting Professor, University of Chile, Santiago, Chile, July 2015

Visiting Professor, Université Paris 1, France, March 2015

Visiting Professor, Université Gaston Berger, Saint-Louis, Senegal, January 2015

Editorship

Editor-in-Chief of *'Nonautonomous Dynamical Systems'*

Associate Editor for *'Fractional Differential Equations'*

Associate Editor for *'Research in Mathematics'*

Associate Editor for *'Afrika Matematika'*

Associate Editor for *'International Journal of Differential Equations'*

Directed PhD

1. **Sandra N. Farrier**, Howard University, Department of Mathematics, January 2005
Thesis: *Fixed-Point and Ergodic Theorems for Nonexpansive Mappings on Ultrametric Banach Spaces*
2. **Dodzi K. Attimu**, Howard University, Department of Mathematics, February 2008
Thesis: *Linear Operators on Some Non-Archimedean Hilbert Spaces and Their Spectral Theory*
3. **Najja S. Al-Islam**, Howard University, Department of Mathematics, January 2009
Thesis: *Pseudo Almost Periodic Solutions to Some Systems of Nonlinear Hyperbolic Second-Order Partial Differential Equations*
4. **George D. McNeal**, Howard University, Department of Mathematics, November 2009
Thesis: *Spectral Analysis for Rank-One Perturbations of Diagonal Operators in Non-Archimedean Hilbert Space*
5. **Valerie Nelson**, Howard University, Department of Mathematics, November 2013
Thesis: *Existence Results for Some Higher-Order Abstract Differential Equations with Applications to PDEs*
6. **Mohamed Zitane**, Université IBN TOFAIL, Morocco, December 2013
Thesis: *Existence Results for Some Nonautonomous Neutral Functional Differential Equations with Applications to PDEs*
7. **TeyLama H. Miabey**, Howard University, Department of Mathematics, April 2014
Thesis: *Spectral Analysis for Finite Rank Perturbations of Diagonal Operators in non-Archimedean Hilbert Space*
8. **Ahmed H. Mohamed**, Howard University, Department of Mathematics, June 2014
Thesis: *Existence Results for Some Second-Order Evolution Equations with Damping*
9. **Demba Sy**, Howard University, Department of Mathematics, March 2019
Thesis: *Piecewise Stepanov-Like Pseudo-Almost Periodic Solutions To Abstract Impulsive Differential Equations*
10. **Jason Knight**, University of Alabama in Huntsville, Department of Mathematical Sciences, March 2022
Thesis: *Dynamical Systems of p -adic (3,3)-Rational Functions*

Current PhD Students

Mariam Mohamed Abdellahi, University of Nouakchott

Thesis Topics: Beverton-Holt Models in Time Scales

Michael Lott, University of Alabama in Huntsville

Thesis Topics: Evolution Equations and their Applications to PDEs

Master/Honors Theses Directed

Quinten Ryan McKinney, Honors Thesis, University of Alabama in Huntsville

Thesis: *Analysis of the Almost Periodically Forced Sigmoid Beverton-Holt Model*

Defense Date: August 2020

Gradi Lubwele Kamingu, M.S. Thesis, The African Institute of Mathematical Sciences (AIMS), Senegal

Thesis: *Existence of Almost Automorphic Solutions to Some Singular Systems of Differential Equations*

Defense Date: June 2017

Martin Arienmughare, M.S. Thesis, Howard University, Department of Mathematics

Thesis: *Almost Periodic Solutions to Some Singular Systems of Differential Equations*

Defense Date: April 2012

Participating in PhD and HDR Committees

Sean D. Brooks (Howard University) — 2003

Barbara Tankersley (Howard University) — 2004

Sandra N. Farrier (Howard University) — 2005

Simeao Joao (Howard University) — 2006

Lakeshia Legette (Howard University) — 2008

Dodzi K. Attimu (Howard University) — 2008

Lifoma Salaam (Howard University) — 2008

Najja S. Al-Islam (Howard University) — 2009

- George D. McNeal (Howard University) — 2009
- Shari Wiley (Howard University) — 2010
- Kendall Williams (Howard University) — 2010
- Chinenye Ofodile (Howard University) — 2011
- Adebukola Gbade-Oyelakin (Howard University) — 2011
- Lois Simon (Howard University) — 2011
- Fred Nelson (Howard University) — 2011
- Henry Jordan (Howard University) — 2011
- Nianpeng Li (Howard University) — 2012
- Evelyn Thomas (Howard University) — 2012
- Ralph Twum (Howard University) — 2012
- Valerie Nelson (Howard University) — 2013
- Oliver Kayande (Howard University) — 2013
- Mohamed Zitane (Ibn Tofail University, Kenitra, Morocco) — 2013
- Teylama Herve Miabey (Howard University) — 2014
- Ahmed Hassan Mohamed (Howard University) — 2014
- Denis Pennequin (University of Paris 1, FRANCE) — HDR — 2014
- Mamamdou M. Mbaye (Gaston Berger University, Saint-Louis, SENEGAL) — 2015
- Philippe Cieutat (University of Versailles, FRANCE) — HDR — 2015
- Francis Erebholo (Howard University) — 2015
- Abdelkarim Nidal Akdad (University of Cadi Ayyad, MOROCCO) — 2015
- Aril Milce (University of Guadeloupe, FRANCE) — 2015
- Genesis Alberto (Howard University) — 2016
- Tongobé Mounkoro (Faculté des Sciences de Bamako, MALI) — 2016
- Haleemah Ghazwani (Howard University) — 2017

Angel Barria Comicheo (University of Manitoba, CANADA) — 2018

Jamilu H. Hashim (King Fahd University of Petroleum and Minerals, KSA) — 2018

Demba Sy (Howard University) — 2019

Nadia Drissi (University of Cadi Ayyad, MOROCCO) — 2019

Jason Knight (University of Alabama in Huntsville, USA) — 2022

Served as the *Chairperson* for the PhD Committees of the following people:

Simeao Joao

Lakeshia Legette

Lifoma Salaam

Kendall Williams

Chinenye Ofodile

Adebukola Gbade-Oyelakin

Henry Jordan

Nianpeng Li

Evelyn Thomas

Ralph Twum

Francis Erebholo

Jason Knight

Courses Taught at Howard University

Math 006 Algebra I – Undergrad

Math 007 Precalculus – Undergrad

Math 009 Introduction to Statistics – Undergrad

Math 010 Algebra II – Undergrad

Math 026 Applied Calculus – Undergrad

Math 156 Calculus I – Undergrad

Math 157 Calculus II – Undergrad

Math 158 Calculus III – Undergrad

Math 159 Introduction to Differential Equations – Undergrad

Math 180 Introduction to Linear Algebra – Undergrad

Math 236 Partial Differential Equations I – Grad

Math 237 Partial Differential Equations II – Grad

Math 430 Topics in Analysis I – Grad

Math 439 Topics in Analysis II – Grad

Math 231 Functional Analysis I – Grad

Math 232 Functional Analysis II – Grad

Courses Taught at the University of Alabama in Huntsville

MA 538 Metric Spaces and Applications – Grad

MA 490 & MA 690 Topics in p-adic Analysis – Undergrad & Grad

MA 544 Linear Algebra – Grad

MA 490 & MA 690 Differential Calculus – Undergrad & Grad

MA 460 & MA 561 Intro to Fourier Analysis – Undergrad & Grad

MA 690 Advanced PDEs – Grad

Publications

Books

1. T. Diagana, *Semilinear Evolution Equations and Their Applications*. Springer, New York, 2018.
2. T. Diagana and F. Ramaroson, *Non-archimedean Operator Theory*. Springer, New York, 2016. xiii+156 pp. ISBN: 2191-8198.
3. T. Diagana, *Almost Automorphic Type and Almost Periodic Type Functions in Abstract Spaces*. Springer, New York, 2013. xvi+303 pp. ISBN: 978-3-319-00848-6. (MR3098423)
4. T. Diagana (with P. H. Bezandry) *Almost Periodic Stochastic Processes*. Springer, New York. April, 2010. Springer, New York, 2011. xvi+235 pp. ISBN: 978-1-4419-9475-2. (MR 2761071)

5. T. Diagana, *Pseudo-Almost Periodic Functions in Banach Spaces*. Nova Science Publishers, Inc., New York, 2007. xiv+132 pp. ISBN: 978-1-60021-637-4; 1-60021-637-4. (MR2373925)
6. T. Diagana, *Non-Archimedean Linear Operators and Applications*. Nova Science Publishers, Inc., Huntington, NY, 2007. xiv+92 pp. ISBN: 978-1-60021-405-9; 1-60021-405-3. (MR2294736)
7. T. Diagana, *An Introduction to Classical and P-adic Theory of Linear Operators and Applications*. Nova Science Publishers, Inc., Hauppauge, NY, 2006. x+116 pp. ISBN: 1-59454-424-7. (MR2269328)

Published Articles

8. T. Diagana (with W. Khulaifi and A. Guesmia), Well-posedness and stability results for some nonautonomous abstract linear hyperbolic equations with memory. *Semigroup Forum* (2022). <https://doi.org/10.1007/s00233-022-10284-4>.
9. T. Diagana (with J. H. Hassan and S. A. Messaoudi, Salim), Existence of asymptotically almost periodic solutions for some second-order hyperbolic integrodifferential equations. *Semigroup Forum* **102** (2021), no. 1, pp. 104–119.
10. T. Diagana (with M. Kostic), Almost periodic and asymptotically almost periodic type functions in Lebesgue spaces with variable exponents $L^{p(x)}$. *Filomat* **34** (2020), no. 5, pp. 1629–1644.
11. T. Diagana (with C. Buse, L. T. Nguyen, and D. O'Regan), Exponential stability for solutions of continuous and discrete abstract Cauchy problems in Banach spaces. *Electron. J. Differential Equations*, Vol. 2019 (2019), No. 78, pp. 1-16.
12. T. Diagana (with Denis Pennequin), Almost periodic solutions for some semilinear singular difference equations. *Journal of Difference Equations and Applications*. Vol. **24** (2018) - Issue 1, pp. 138–147.
13. T. Diagana, Spectral analysis for infinite rank perturbations of unbounded diagonal operators. *p-Adic Numbers Ultrametric Anal. Appl.* **9** (2017), no. 3, pp. 242–246.
14. T. Diagana (with S. Araci, M. Acikgoz, and H. M. Srivastavad), A novel approach for obtaining new identities for the λ extension of q -Euler polynomials arising from the q -umbral calculus. *Journal of Nonlinear Sciences and Applications* **10** (2017), pp. 1316-1325.
15. T. Diagana, Well-Posedness for Some Damped Elastic Systems in Banach Spaces. *Applied Mathematics Letters* **71** (2017), pp. 70–80.
16. T. Diagana (with H. Maga), Some new identities and congruences for Fubini numbers. *Journal Number Theory* **173** (2017), pp. 547–569.

17. T. Diagana (with F. Ramarosan), Spectral theory for finite rank perturbations of unbounded diagonal operators in non-Archimedean Hilbert space. *Advances in non-Archimedean analysis*, 29–40, Contemp. Math., 665, Amer. Math. Soc., Providence, RI, 2016.
18. T. Diagana, Existence Results for Some Nonautonomous Integro-differential Equations. *J. Nonlinear Convex Anal.* **17** (2016), no. 8, pp. 1465–1483.
19. T. Diagana (with A. Ammar and A. Jeribi), Perturbations of Fredholm Linear Relations in Banach Spaces with Applications to 3×3 -Block Matrices of Linear Relations. *Arab J. Math. Sci.* **22** (2016), no. 1, pp. 59–76.
20. T. Diagana (with M. M. Mbaye) Square-mean Almost Periodic Solutions to some Singular Stochastic Differential Equations. *Appl. Math. Lett.* **54** (2016), pp. 48–53. (MR MR3434454)
21. T. Diagana (with H. Zhou) Existence of Positive Almost Periodic Solutions to the Hematopoiesis Model. *Appl. Math. Comput.* **274** (2016), pp. 644–648. (MR MR3433164)
22. T. Diagana (with M. M. Mbaye) Existence Results for Some Nonlinear Hyperbolic Partial Differential Equations. *Electronic J. Differential Equations*. Vol. 2015 (2015), no. 241, pp. 1–10.
23. T. Diagana (with M. M. Mbaye) Leslie-Gower Competition Model with Survival Rate in an Almost Automorphic Environment. *International Journal of Difference Equations*. Vol. 10 (2015), pp. 167–179.
24. T. Diagana, Existence Results for Some Higher-Order Evolution Equations with Time-Dependent Unbounded Operator Coefficients. *Mathematica Slovaca*. 65 (2015), no. 1, 121–140.
25. T. Diagana, Perturbations of Unbounded Fredholm Linear Operators. *Handbook in Operator Theory*, Springer (2015), pp. 875–880.
26. T. Diagana (with M. Zitane), Stepanov-like Pseudo-Almost Periodic Functions in Lebesgue Spaces with Variable Exponents $L^{p(x)}$. *New Frontiers of Multidisciplinary Research in STEM-H*, Springer. To Appear.
27. T. Diagana (with R. Kerby, T. H. Miabey, and F. Ramarosan), Spectral Analysis for Finite Rank Perturbations of Diagonal Operators in Non-Archimedean Hilbert Space. *P-adic Numbers, Ultrametric Analysis, and Applications*. Vol. **6** (2014), no. 3, pp. 171–187. (MR3240354)
28. T. Diagana (with K. Ezzinbi and M. Miraoui), Weighted Pseudo-Almost Periodic Solutions of Neutral Functional Differential Equations Using Measure Theory. *Cubo: A Mathematical Journal*. Vol. **16** (2014), no. 2, pp. 1–31.
29. T. Diagana, Almost Automorphic Solutions to a Beverton-Holt Dynamic Equation with Survival Rate. *Applied Mathematics Letters*. Vol. **36** (2014), pp. 19–24. (MR3215484)

30. T. Diagana, Existence Results for Some Damped Second-Order Veltterra Integro-Differential Equations. *Appl. Math. Comput.* **237** (2014), 304–317. (MR3201132)
31. S. Abbas, M. Benchohra, and T. Diagana, Existence and attractivity results for some fractional order partial integro-differential equations with delay. *Afr. Diaspora J. Math.* **15** (2013), no. 2, 87–100. (MR3161669)
32. T. Diagana, Existence of Pseudo-Almost Automorphic Mild Solutions to Some Nonautonomous Second-Order Differential Equations. *Rocky Mountain Journal of Mathematics*. Vol. **43** (2013), no. 3, pp. 793–824. (MR3093266)
33. T. Diagana, Existence of Globally Attracting Almost Automorphic Solutions to Some Nonautonomous Higher-Order Difference Equations. *Applied Mathematics and Computations*. **219** (2013), pp. 6510–6519. (MR3027818)
34. T. Diagana, Bounded Solutions to Some Classes of Nonautonomous Higher-Order Differential Equations. *Afrika Matematika*. **24** (2013), no. 1, pp. 33–53. (MR3019804)
35. T. Diagana (with M. Arienmughare) Existence of Almost Periodic Solutions to Some Singular Differential. *Nonlinear Dyn. Syst. Theory* **13** (2013), no. 1, pp. 1–12. (MR3076321)
36. T. Diagana (with M. Zitane) Stepanov-like Pseudo-Almost Automorphic Functions in Lebesgue Spaces with Variable Exponents $L^{p(x)}$. *Electron. J. Diff. Equ.*, Vol. 2013 (2013), No. 188, pp. 1–20. (MR3104964)
37. T. Diagana (with M. Zitane), Weighted Stepanov-Like Pseudo-Almost Periodic Functions in Lebesgue Spaces with Variable Exponents $L^{p(x)}$. *Afr. Diaspora J. Math.* **15** (2013), no. 2, pp. 56–75. (MR3161667)
38. T. Diagana, Corrigendum on "Almost Automorphic Mild Solutions to Some Classes of Higher-Order Differential Equations. *Semigroup Forum*. **87** (2013), no. 1, pp. 275–276. (MR3079785)
39. T. Diagana (with P. H. Bezandry), Square-Mean Almost Periodic Solutions to Some Classes of Nonautonomous Stochastic Evolution Equations With Finite Delay. *J. Appl. Funct. Anal.* **7** (2012), no. 4, 345–366. (MR2920168)
40. T. Diagana, A note on nonautonomous systems of second-order differential equations. *Bridging mathematics, statistics, engineering and technology*, 17—27, Springer Proc. Math. Stat., 24, Springer, New York, 2012. (MR3064846)
41. T. Diagana (with Valerie Nelson), Existence Results for some Higher-Order Evolution with Operator Coefficients. *Applied Mathematics and Computation*. **219** (2012), Issue 6, pp. 2923–2931. (MR2991993)

42. T. Diagana, Almost Automorphic Solutions to Some Damped Second-Order Differential Equations. *Communications in Nonlinear Science and Numerical Simulation*. **17** (2012), Issue 11, PP. 4074–4084. (MR2930307)
43. T. Diagana, Evolution Equations in Generalized Stepanov-Like Pseudo Almost Automorphic Spaces. *Electronic J. Differential Equations*. 2012 (2012), no. 49, pp. 1-19. (MR2927785)
44. T. Diagana (with Najja S. Al-Islam and Saud M. Alsulami), Existence of Weighted Pseudo Anti-Periodic Solutions to Some Nonautonomous Differential Equations. *Applied Mathematics and Computation*. **218** (2012), 6536-6548. (MR2879134)
45. T. Diagana (with Valerie Nelson and Gaston M. N'Guérékata), Stepanov-Like $C^{(n)}$ -Pseudo Almost Automorphy and Applications to Some Nonautonomous Higher-Order Differential Equations. *Opuscula Math.* 32/3 (2012), 455-471. (MR2945786)
46. T. Diagana (with Valerie Nelson), C^n -Pseudo Almost Almost Automorphy and Its Applications to Some Higher-Order Differential Equations. *Nonlinear Studies* Vol. **19** (2012), no. 3, pp. 443–455. (MR2985531)
47. T. Diagana, Almost Periodic Solutions for Some Higher-Order Nonautonomous Differential Equations with Operator Coefficients. *Mathematical and Computer Modelling*. **54** (2011), Issues 11–12, 2672-2685. (MR2841812)
48. T. Diagana, Almost Periodic Solutions to Some Second-Order Nonautonomous Differential Equations. *Proceedings of the American Mathematical Society* **140** (2012), 279–289. (MR2833540)
49. T. Diagana, Pseudo Almost Periodic Solutions for Some Classes of Nonautonomous Partial Evolution Equations. *Journal of the Franklin Institute*. **348** (2011), Issue 8, 2082–2098. (MR2841897)
50. T. Diagana, Existence of Almost Periodic Solutions to Some Third-Order Nonautonomous Differential Equations. *Electronic Journal of Qualitative Theory of Differential Equations* No. **66** (2011), pp. 1–12. (MR2832771)
51. T. Diagana, Existence of Pseudo Almost Automorphic Solutions to a Nonautonomous Heat Equation. *Cubo: A Mathematical Journal*. Vol. **13** (2011), no. 1, pp. 67–95. (MR2815123)
52. T. Diagana, Doubly-Weighted Pseudo Almost Periodic Functions. *African Diaspora Journal of Mathematics. Special Volume in Honor of Profs. C. Corduneanu, A. Fink, and S. Zaidman*. Vol. **12** (2011), no. 1, pp. 121–136. (MR2826847)
53. T. Diagana, The existence of a weighted mean for almost periodic functions. *Nonlinear Analysis* **74** (2011), no. 12, 4269–4273.(MR2803029)

54. T. Diagana, Existence of Doubly-Weighted Pseudo-Almost Periodic Solutions to Some Classes of Nonautonomous Differential Equations. *Electronic Journal of Differential Equations*. **2011** (2011), No. 28, pp. 1-15. (MR2781063)
55. T. Diagana, Existence of Pseudo Almost Automorphic Mild Solutions to Some Nonautonomous Partial Evolution Equations. *Advances in Difference Equations*. **2011**, Art. ID **895079**, 23 pp. (MR2739757)
56. T. Diagana, Almost Automorphic Mild Solutions to Some Classes of Nonautonomous Higher-Order Differential Equations. *Semigroup Forum*. **82** (2011) no. 3, 455–477. (MR2796037)
57. T. Diagana, Existence of Weighted Pseudo Almost Periodic Solutions to Some Classes of Nonautonomous Partial Evolution Equations. *Nonlinear Analysis* **74**(2011), no. 2, 600–615. (MR2733234)
58. T. Diagana (with G. M. Mophou and G. M. N’Guerekata), On the existence of mild solutions to some semilinear fractional integro-differential equations, *Electronic Journal of Qualitative Theory of Diff. Equ.* No. **58**. (2010), pp. 1–17. (MR2725001)
59. T. Diagana (with P. H. Bezandry), Existence of square-mean almost periodic mild solutions to some nonautonomous stochastic second-order differential equations, *Electronic Journal of Differential Equations*, Vol. 2010(2010), No. 124, pp. 1–25. (MR2685034)
60. T. Diagana (G. M. N’Guerekata and A. Pankov) Abstract differential and difference equations. *Advances in Difference Equations* **2010** Art. ID **857306**, 2 pp (MR 2774245)
61. T. Diagana, Existence of Almost Automorphic Solutions to Some Classes of Nonautonomous Higher-Order Differential Equations. *Electronic Journal of Qualitative Theory of Differential Equations*, No. **22**. (2010), pp. 1–26.(MR2644837)
62. T. Diagana (with A. Mohamed), Pseudo Almost Automorphic Solutions to Some Second-Order Differential Equations. *Cubo: A Mathematical Journal*. Vol. **13** (2011), n. 3, 127–137. (MR2895480)
63. T. Diagana (with P. H. Bezandry), P-th Mean Pseudo Almost Automorphic Mild Solutions to Some Nonautonomous Stochastic Differential Equations. *African Diaspora Journal of Mathematics*. (Special Volume in Honor of Constantin Corduneanu, Arlington Fink, and Samuel Zaidman). Vol. **12** (2011), no. 1, pp. 60–79.
64. T. Diagana (with D. Attimu), Representation of Bilinear Forms by Linear Operators in non-Archimedean Hilbert Space Equipped with a Krull Valuation. *Seminario Matematico Università e Politecnico di Torino*. Vol. 68 (2010), no. 2, pp. 139–159. (MR2790459)
65. T. Diagana (with G. M. Mophou and G. M. N’Guerekata), Existence of weighted pseudo-almost periodic solutions to some classes of differential equations with S^p -weighted pseudo-almost periodic coefficients. *Nonlinear Analysis* **72** (2010), no. 1, 430-438. (MR2574952)

66. T. Diagana (with P. H. Bezandry), Existence of Square-Mean Almost Periodic Solutions to Some Stochastic Hyperbolic Differential Equations with Infinite Delay. *Communications in Mathematical Analysis* **8** (2010), no. 2, pp. 103–124. (MR2576914)
67. T. Diagana, On the Existence of Almost Automorphic Solutions to Some Abstract Hyperbolic Differential Equations. *Bulletin of the Belgian Mathematical Society. Simon Stevin* **17**(2010), no. 2, 219–234. (MR2663467)
68. T. Diagana, Pseudo-Almost Automorphic Solutions to Some Classes of Nonautonomous Partial Evolution Equations. *Differential Equations and Applications*. **1** (2009), no. 4, pp. 561–582. (MR2598242)
69. T. Diagana (with Paul H. Bezandry), Existence of quadratic-mean almost periodic solutions to some stochastic hyperbolic differential equations. *Electronic Journal of Differential Equations*. Vol. **2009**(2009), no. 111, pp. 1–14. (MR2539219)
70. T. Diagana, Pseudo Almost Automorphic Solutions to Some Neutral Delay Integral Equations of Advanced Type. *African Diaspora Journal of Mathematics* **8**(2009), No. 2, pp. 90–99. (MR2530114)
71. T. Diagana (with R. Agarwal), Existence of Pseudo Almost Automorphic Solutions for the Heat Equation with Sp-Pseudo Almost Automorphic Coefficients. *Boundary Value Problems* **2009**, Art. ID **182527**, 19 pp. (MR2534900)
72. T. Diagana (with G. D. McNeal), Corrigendum to “Spectral Analysis for Rank One Perturbations of Diagonal Operators in Non-Archimedean Hilbert Space. *Commentationes Mathematicae. Univ. Carolin.* **50** (2009), no. 4, 637-638. (MR2583140)
73. T. Diagana (with G. D. McNeal), Spectral Analysis for Rank One Perturbations of Diagonal Operators in Non-Archimedean Hilbert Space. *Commentationes Mathematicae. Univ. Carolin.* **50**(2009), no. 3, 385–400. (MR2573412)
74. T. Diagana, Erratum to “Existence of Solutions to Some Classes of Partial Fractional Differential Equations”. *Advances in Dynamical Systems and Applications*. **4** (2009), no. 2, pp. 25–26. (MR2599533)
75. T. Diagana, Existence of Solutions to Some Classes of Partial Fractional Differential Equations. *Nonlinear Analysis* **71** (2009), no. 11, 5296–5300.(MR2560198)
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