

# CURRICULUM VITAE

**Name:** Claudio Cuevas  
**Birth Date:** October 27/1964  
**Place of birth:** Santiago – Chile  
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**h-index (SCOPUS):** 19  
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## ACADEMIC EDUCATION

- Bachelor of Mathematical Science from Department of Mathematics, University of Santiago, Chile, 1988. Advisor: Prof. Hernán Henríquez.
- Master of Mathematics from Department of Mathematics, Federal University of Pernambuco, Brazil, 1990. Advisor: Prof. Fernando Cardoso.

- Doctor of Mathematics from the Department of Mathematics, Federal University of Pernambuco, Brazil, 1996. Doctoral Thesis: On the Hyperbolic Dirichlet to Neumann Functional. Advisor: Prof. Fernando Cardoso.

## PROFESSIONAL EXPERIENCE

- 2002 – Nowadays.  
Department of Mathematics,  
Federal University of Pernambuco,  
Recife-PE, Brazil.
- 2016 – Visiting Professor  
Department of Mathematics  
University of La Frontera, Temuco  
University of Santiago, Santiago  
Chile.  
(01.06.16 – 16.06.16).
- 2014 – Visiting Professor  
Department of Mathematics  
University of La Frontera  
Temuco, Chile.  
(05.08.14 – 05.01.15).
- 2012 – CONICYT Research visitor  
Department of Mathematics  
University of La Frontera  
Temuco, Chile.  
(01.07.12 – 30.11.12).

- 2011 – CNRS Research Fellow  
Department of Mathematics  
Université de Nantes  
Nantes, France  
(01.09.11 – 30.11.11).
- 2010 – Visiting Professor  
Department of Mathematics  
University of La Frontera  
Temuco, Chile.  
(02.03.10 – 19.07.10).
- Department of Mathematics  
University of Santiago  
Santiago, Chile
- Department of Mathematics  
Universidad Catolica del Norte  
Antofagasta, Chile
- 2009 – Visiting Professor  
Department of Mathematics  
University of São Paulo, ICMC.  
São Carlos, Brazil.  
(12.04.09 – 16.04.09)
- 2008 – Visiting Professor  
Department of Mathematics  
University of Santiago  
Santiago, Chile.  
(02.06.08 – 16.07.08)  
(05.12.08 – 05.01.09).

- 2007 – Visiting Professor  
Department of Mathematics  
University of Santiago  
Santiago, Chile.  
(01.04.07 – 13.07.07).  
University of La Frontera  
Temuco, Chile.  
(01.06.07 – 13.06.07).  
Department of Mathematics  
University of Chile  
Santiago, Chile
- 2006 – Research visitor  
Department of Mathematics, Université de Nantes,  
Nantes, France, (01.06.06 – 08.08.06).
- 2004 – Research visitor Agreement Brazil/France  
in Mathematics. Proc 690014/01-5, CNPQ/CNRS,  
Department of Mathematics, Université de Nantes,  
Nantes, France, (01.04.04 – 30.04.04).
- 2003 – Visiting Professor  
Department of Mathematics  
University of Chile  
Santiago, Chile  
(01.10.03 – 31.10.03).
- 1997-2002 – Associated Professor  
Department of Mathematics  
University of La Frontera  
Temuco-Chile.
- 2001 – CNRS Research Fellow  
Department of Mathematics  
Université de Nantes  
Nantes, France  
(01.10.01 – 31.12.01).

1997 – Visiting Professor  
 Department of Mathematics  
 Federal University of Pernambuco  
 Recife-PE, Brazil  
 (01.01.97 – 01.07.97).

1992-1995 – Visiting Professor  
 Department of Mathematics  
 Federal University of Alagoas  
 Maceió-AL, Brazil  
 (01.12.92 – 01.07.95).

## RESEARCH INTERESTS

1. Difference Equations.
2. Periodicity and Ergodicity.
3. Dispersive Estimates.
4. Fractional Differential Equations.
5. Functional Differential Equations.
6. Integral and Integro-Differential Equations.

## PRIZES AND DISTINCTIONS

1. Prize University of Santiago, Chile, best graduating student, 1988.
2. Scientific Merit for published works in Mathematics 1999, 2000 and 2001, University of La Frontera, Temuco, Chile.
3. Research under grant N<sup>o</sup> 8990013, 1999-2002 National Research Council of Chile (CONICYT, Chile).
4. Invited as main speakers to several international mathematical congress.
5. Research Fellow (October-December 2001) Centre National de la Recherche Scientifique CNRS-France at University of Nantes.
6. Research Fellow under Agreement Brazil/France in Mathematics, CNPq-CNRS (April, 2004).

7. Research Fellow under Agreement Brazil/France in Mathematics, CNPq-CNRS (July/August, 2006).
8. Research under grant N<sup>o</sup> 300068/2005-0 , 2006-2009. National Research Council of Brazil (CNPq, Brazil).
9. Foreigner research fellow 2009 National Research Council of Chile (CONICYT-Chile), “Qualitative properties of abstract functional differential systems with delay”, Grant 1090009.
10. Research under grant N<sup>o</sup> 300365/2008-0 , 2009-2012 National Research Council of Brazil (CNPQ, Brazil).
11. Foreigner research fellow 2010 National Research Council of Chile (CONICYT-Chile, “Analysis of continuous, discrete and stochastic evolution equations in Banach spaces”, Grant 1100485.
12. Research Fellow (September-November 2011) Centre National de la Recherche Scientifique CNRS-France at University of Nantes.
13. Emeritus Editor Cubo Journal (2011- 2016).
14. Research Fellow (July-November 2012) “Programa Atracción e Inserción (PAI-MEC)” Grant 80112008 (CONICYT-CHILE) at University of La Frontera, Temuco, Chile.
15. Research member of Ring Project named: “Research Network on Stochastic Analysis and Applications (Open Systems, Energy and Information Dynamics)” has financed by National Research Council of Chile (CONICYT-Chile), 2012-2015.
16. Research member of the project “Aspectos estruturais de configurações e soluções de equações em matemática discreta”, from National Research Council of Brazil (CNPQ, Brazil), Grant N<sup>o</sup> 478053/2013-4 (2013-2016).
17. Research member of the project “Equações diferenciais funcionais em medida com impulsos e equações de evolução: Resultados”, from National Research Council of Brazil (CNPQ, Brazil), Grant N<sup>o</sup> 407952/2016-0 (2017-2019).

## MEMBER OF SCIENTIFIC COMMITTEE

1. 2020 4th International Conference on Aerospace, Mechanical and Mechatronic Engineering (CAMME 2020), Nagoya, Japan, March 23-25, 2020.
2. 2019 International Conference on Soft Computing & Machine Learning (SCML2019) April 26th-29th, Wuhan, China.
3. 2019 International Conference on Machine Learning and Intelligent Systems (MLIS 2019), Nov. 19-22, 2019, Hualien, Taiwan.
4. The 5th International Conference on Mathematical Sciences & Computer Engineering (ICMSCE 2018) 5-6 July 2018, Langkawi, Malaysia.
5. 7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2018), 28-31 August 2018, Kyiv, Ukraine.
6. International Conference on Mathematics: An Istanbul Meeting for World Mathematicians (ICOM 2018), 3-6 July 2018, Istanbul, Turkey.
7. Seventh Conference on Finite Difference Methods: Theory and Applications (FDM: T&A'2018) June 11-16, 2018 Lozenetz, Bulgaria
8. 5Th International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2018) JULY 23-27 2018 at Karadeniz Technical University Prof. Dr. Osman Turan Convention Center in Trabzon, TURKEY.
9. The International Conference on Fractional Differentiation and its Applications, ICFDA 2018, 16-18 July 2018, Amman, The Hashemite Kingdom of Jordan.
10. Mathematical Inequalities and Applications 2018 (MIA CONFERENCE 2018), July 4-8, Zagreb, Croatia.
11. 2018 International Conference on Aerospace, Mechanical and Mechatronic Engineering (CAMME 2018), Hanoi, Vietnam, March 23-26, 2018.
12. International Conference on Differential Equations: Theory, Methods and Applications (DEMA 2018) on 18-21 June 2018 at Sétif University (Algeria).
13. XXI Simposio Internacional de Métodos Matemáticos Aplicados a las Ciencias (SIMMAC 2018), February 27 th. March 2 nd, 2018, San José, Costa Rica.

14. 2018 International Conference on Mechanical, Electronic and Information Technology- ICMEIT, April 15-16, Shanghai (China).
15. The 4th International Conference on Fuzzy Systems and Data Mining, Nov. 16-19, 2018, Bangkok, Thailand.
16. 3<sup>eme</sup> Journée d'étude internationale sur la physique médicale Sétif radiothérapie, imagerie et médecine nucléaire, Département de physique, Faculté des Sciences, université Ferhat Abbas, Sétif 1, El Bez, Sétif 19000 , ALGERIE, October 2017.
17. 2017 International Conference on Applied Mechanics and Mechanical Automation (AMMA 2017), Hong Kong, June 23-24, 2017.
18. ICRAPAM 2017 International Conference on Recent Advances in Pure and Applied Mathematics, 11-15 May 2017, Kus Adasi, Turkey.
19. III Workshop in Evolution Equations and Applications, Department of Mathematics, University of La Frontera, Temuco, Chile, 07-09 June 2017.
20. 2017 International Conference on Aerospace, Mechanical and Mechatronic Engineering (CAMME 2017), Bangkok, Thailand, April 21-23, 2017.
21. The Second International Conference on Computational Mathematics and Engineering Sciences (CMES2017), May 20-22, 2017, Istambul, Turkey.
22. 2017 Spring World Congress on Engineering and Technology (SCET 2017), April 18-20, 2017 in Chengdu, China.
23. XI Congress in Evolution Equation and Functional Analysis (GAFEVOL 2017), October 23-26, Brasilia, Brazil.
24. 24TH International Conference on Finite or Infinite Dimensional Complex Analysis and Applications (24'ICFIDCAA-2016), 22-24 August 2016, Amand International College of Engeneering, Jaipur, India.
25. The Fifth International Conference on Mathematical Sciences, March 21-24, United Arab Emirates University, 2016.
26. ICRAPAM 2016 International Conference on Recent Advances in Pure and Applied Mathematics, 19-23 May 2016, Bodrum-Mugla, Turkey.



27. The 6th World Congress on Engineering and Technology (CET 2016), October 21-23, 2016, Shanghai, China.
28. 10th Annual International Conference on Mathematics: Teaching, Theory & Applications, 27-30 June 2016, Athens, Greece.
29. 2016 Spring World Congress on Engineering and Technology (SCET 2016), April 17-19, Sozhou, China.
30. 2016 International Conference on Materials Applications and Engineering (ICMAE 2016), Qingdao, China, June 25-26.
31. Summer Program 2016, Universidade Federal de Sergipe, Brazil.
32. The 5th International Conference on Control and Optimization with Industrial Applications (COIA-2015), 27-29 August 2015, Baku, Azerbaijan.
33. The 5th World Congress on Engineering and Technology (CET 2015), October 23-25, 2015, Sozhou, China.
34. International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2015), 3-6 June 2015, Istanbul, Turkey.
35. The Second International Conference on new horizons in Basic and Applied Sciences (ICNHBAS 2015), 1-6 August, Hurghada, Egypt.
36. 4th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 2015), August 31-September 03, 2015, Athens, Greece.
37. 4th International Conference on Mathematics & Information Science (ICMIS 2015), Cairo, Egypt.
38. 2015 Spring World Congress on Engineering and Technology (SCET 2015), April 2015, Beijing, China.
39. 3rd ScienceOne International Conference on Information Technology (ICIT 2015), Deira Dubai, United Arab Emirates.
40. 9th Annual International Conference on Mathematics & Statistics: Education & Applications; 29-30 June & 1-2 July 2015, Athens, Greece.
41. Summer Program 2015, Universidade Federal de Sergipe, Brazil.

42. The First Workshop in Discrete Mathematics and Evolution Equations, Department of Mathematics, Federal University of Pernambuco, 13-14 January, 2015, Recife, Brazil.
43. International Conference on Applied Mathematics and Sciences (AMA-2014), December 27-28, Chennai, India.
44. International Conference on Recent Trends in Mathematical Analysis and Its Applications (ICRTMAA 2014), 21-23 Dezember 2014, Roorkee, India.
45. International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2014), 6-9 November 2014, Antalya, Turkey.
46. The 6th. Symposium of the Fractional Calculus and Applications Group “One-Day Conference in Mathematics and Fractional Calculus”. Faculty of Science - Alexandria University, August, 2014, Egypt.
47. 2014 Spring World Congress on Engineering and Technology (SCET 2014), April 2014, Shanghai, China.
48. International Mathematics Symposium Karatekin Mathematics Days, 11-13 June 2014, Cankiri, Turkey.
49. Summer Program 2014, Universidade Federal de Sergipe, Brazil.
50. 5<sup>th</sup> Symposium of the Fractional Calculus and Applications Group, July 2013, Alexandria University, Egypt.
51. 2013 Spring International Conference on Applied and Engineering Mathematics (AEMS), Wuhan, China.
52. VIII Congreso de Análisis Funcional y Ecuaciones de Evolución (GAFEVOL), November 2013, University of Santiago, Santiago, Chile.
53. International Conference on Mathematical Sciences, Dec. 2012, Nagpur, India.
54. VII Congreso de Análisis Funcional y Ecuaciones de Evolución (GAFEVOL), November 2012, University of Santiago, Santiago, Chile.
55. VI Congreso de Análisis Funcional y Ecuaciones de Evolución (GAFEVOL), November 2011, University of Santiago, Santiago, Chile.
56. XIV Congreso de Matemática Capricornio, COMCA 2004, Arica, Chile.

57. XIII Jornada de Matemática Zona Sur, 1999, Valdivia, Chile.

## OTHERS ACTIVITIES

1. Took part in several Master Degree and Ph.D. Committees at University of São Paulo (Brazil), University of Chile, Federal University of Pernambuco (Brazil), University of Santiago (Chile), Federal University of Paraná (Brazil), Federal University of Paraíba (Brazil), University of La Frontera (Chile), Université IBN TOFAÏl, (Kenitra-Marocco).
2. International organizing committee of the Fourth International Conference on Analysis and Applied Mathematics (ICAAM 2018), September 6-9, 2018, North Cyprus, Turkey.
3. International organizing committee of the Third International Conference on Analysis and Applied Mathematics (ICAAM 2016), September 7-10, 2016, Almaty, Kazakhstan.
4. Member of the organizing committee of The 5th Power Engineering and Automation Conference (PEAM 2015), October 23-25, Suzhou, China.
5. Co-organizer of the special session “Abstract differential equations and related topic” with J.J. Nieto and T. Diagana. In the 10th AIMS (American Institute of Mathematics Sciences) 7-11 July 2014, Madrid, Spain.
6. Member of Asian Council of Science Editors (ACSE), Dubai, United Arab Emirates. (2014).
7. Member of the organizing committee of “The Second Workshop in Evolution Equations and Applications”, Department of Mathematics, University of La Frontera, Temuco, Chile, 06-10 October 2014.
8. Co-organizer of the session “Recent advances and current research on the difference equations and its applications” with S. Kadry and J. Claver. In 10<sup>th</sup> International Conference of Numerical Analysis and Applied Mathematics, Kos, Greece, 19-25 September 2012.
9. Member of the organizing committee of “The First Workshop in Evolution Equations and Applications”, Department of Mathematics, University of La Frontera, Temuco, Chile, August 2012.
10. Member of the organizing committee of “The First Brazilian Northeast Meeting in Mathematics“, 2010.

11. Member of the Doctorate Committee of the University of La Frontera, Temuco, Chile, 1997-2002.
12. Professor at PhD Program, Department of Mathematics, University of La Frontera, Temuco, Chile, 2010-Nowadays.
13. Professor at PhD Program, Department of Mathematics, Federal University of Paraíba, João Pessoa, Brazil, 2009-2011.

## GUEST EDITOR ACTIVITIES

- a.- Special Issue on “Asymptotic Behavior of Nonlinear Evolutions Equations”. In Abstract and Applied Analysis, with Hui-Sheng Ding, C. Lizama and G. M. N’Guérékata, Hindawi Publ. Corp. NY, USA. Volume 2015, <http://dx.doi.org/10.1155/2015>.
- b.- Special Issue on “Nonlinear Systems in Function Spaces and Applications in Biomedical Sciences, Control Theory, and Engineering”. Journal of Function Spaces and Applications, with J. Liang, T. Diagana, G. N’Guérékata, M. van Nguyen, Vol. 2014 (2014). Hindawi Publ. Corp. NY, USA
- c.- Special Issue dedicated to Professor G. M. N’Guérékata on the occasion of his 60th birthday, Cubo A Mathematical Journal, with B. de Andrade and J. Liang. Vol.15, No 01, March 2013.

## BOOK

- (a) “Regularity of Difference Equations on Banach Spaces”, with R.P.Agarwal and C. Lizama, Springer, Cham Heidelberg New York Dordrecht London, 2014, ISBN 978-3-319-06446-8, ISBN 978-3-319-06447-5 (eBook). DOI 10.1007/978-3-319-06447-5, 232 pp.

## LIST OF PUBLICATIONS

1. “Existence of a positive solution and numerical solution for some elliptic superlinear problem”, with D. Cecílio, J. G. Mesquita, and P. Ubilla, Journal of Differential Equations, Elsevier, 266 (2-3), 2019, 1338-1356.
2. “Existence and asymptotic behaviour for the time-fractional Keller-Segel model for chemotaxis, with J. Azevedo, and E. Henríquez, Mathematische Nachrichten, John Wiley & Sons, 292 (3), 2019, 462-481, DOI: 10.1002/mana.201700237

3. “Qualitative theory for Volterra difference equations”, with F. Bernardo, and H. Soto, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons, 41 (14), 2018; 5423-5458. <https://doi.org/10.1002/mma.5088>.
4. “About a composite fractional relaxation equation via regularized families”, with A. Aparcana and H. Soto, *Scientia Iranica, Transactions B: Mechanical Engineering*, Iran. (2018) 25(1), 329-338.
5. “Fractional evolution equations and applications”, with A. Aparcana, H. Henríquez, and H. Soto, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons, 41(3)(2018), 1256-1280. doi: 10.1002/mma.4662.
6. “Existence of solutions for a class of abstract neutral differential equations”, with H. Henríquez, C. Pozo and H. Soto, *Discrete and Continuous Dynamical Systems, Series A (DCDS-A)*, American Institute of Mathematical Sciences (AIMS), Volume 37, Number 5, May 2017, 2455-2482, doi:10.3934/dcds.2017106.
7. “Second order abstract neutral functional differential equations”, with H. Henríquez, *Journal of Dynamics and Differential Equations*, Springer, (29) (2) (2017), 615-653. doi:10.1007/s10884-015-9483-5
8. “Qualitative theory for strongly damped wave equations”, with J. Azevedo and H. Soto, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons, 2017;1-32, DOI: 10.1002/mma.4504.
9. “Existence results for fractional integro-differential inclusions with state-dependent delay”, with H. Henríquez and G. Siracusa, *Nonauton. Dyn. Syst., De Gruyter Open*, (4) (2017), 62-77. doi: 10.1515/msds-2017-0007
10. “Almost periodicity for a nonautonomous discrete dispersive population model”, with F. Dantas and H. Soto, *Numerical Functional Analysis and Optimization*, Taylor & Francis Group, 37 (12) (2016), 1503-1516, Doi 10.1080/01630563.2016.1212373.
11. “On fractional heat equations with nonlocal initial conditions”, with B. de Andrade and H. Soto, *Proceedings of the Edinburgh Mathematical Society*, Cambridge University Press., (59)(01) (2016), 65-76, Doi:10.1017/S0013091515000590.

12. “Discrete problems associated to elliptic equations”, with H. Soto and P. Ubilla, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons., DOI: 10.1002/mma.3942. 39(2016), 5557-5569.
13. “Asymptotic Periodicity for Flexible Structural Systems and Applications”, with B. de Andrade, C. Silva and H. Soto, *Acta Applicandae Mathematicae*, Springer,(2016) Volume 143, 105-164, DOI 10.1007/s10440-015-0032-3.
14. “Periodic solutions of abstract functional differential equations with state dependent delay”, with F. Andrade and H. Henríquez, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons, 39 (2016) 3897-3909, Doi: 10.1002/mmm.3837.
15. “Asymptotic periodicity for hyperbolic evolution equations and applications”, with F. Andrade, C. Silva and H. Soto, *Applied Mathematics and Computation*, Elsevier. Volume 269 (2015), 169-195.
16. “ $L^p$ -boundedness and topological structure of solutions for flexible structural systems”, with F. Andrade, F. Dantas and H. Soto, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons., (38) 2015, 5139-5159.
17. “Periodicity and ergodicity for abstract evolution equations with critical nonlinearities”, with B. de Andrade, J. Liang and H. Soto, *Advances in Difference Equations*, Springer., (2015) 2015, 20 p., DOI 10.1186/s13662-014-0350-1.
18. “Almost periodic solutions of partial differential equations with delay”, with H. Henríquez and A. Caicedo, *Advances in Difference Equations*, Springer, (2015) 2015:46 DOI: 10.1186/s13662-015-0388-8.
19. “Semi-classical dispersive estimates”, with F. Cardoso and G. Vodev, *Math. Zeitschrift*, Springer-Verlag. DOI 10.1007/s00209-014-1314-6. Volume 278 (2014), 251-277.
20. “Resolvent estimates for perturbations by large magnetic potentials”, with F. Cardoso and G. Vodev, *Journal of Mathematical Physics*, American Institute of Physics (AIP) Publishing, 55, 023502 (2014); doi: 10.1063/1.4863895, 8pp.
21. “Asymptotic analysis for Volterra difference equations”, with M. Choquehuanca and H. Soto, *Asymptotic Analysis*, IOS PRESS, The Netherlands. DOI 10.3233/ASY-131213. Volume 88 (3) (2014), 125-164.

22. “About the behavior of solutions for Volterra difference equations with infinite delay”, with A. Castro, F. Dantas and H. Soto, *Journal of Computational and Applied Mathematics*, Elsevier, 255 (2014), 44-59, Doi 10.1016/j.cam.2013.04.033.
23. “Approximate controllability of second-order distributed systems”, with H. Henríquez, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons, DOI: 10.1002/mma.2983. Volume 37 (2014), 2372-2392.
24. “Asymptotically periodic solutions of fractional differential equations”, with H. Henríquez and H. Soto, *Applied Mathematics and Computation*, Elsevier, 236 (2014) 524-545.
25. “High frequency resolvent estimates for perturbations by large long-range magnetic potentials and applications to dispersive estimates”, with F. Cardoso and G. Vodev, *Annales Henri Poincaré*, Springer Basel AG, 14 (2013), 95-117, DOI 10.1007/s00023-012-0178-8.
26. “Almost automorphy for abstract neutral differential equation via control theory”, with H. Henríquez, *Annali di Matematica Pura ed Applicata*, Springer-Verlag, 192 (2013), 393-405. DOI 10.1007/s10231-011-0229-7.
27. “Asymptotically periodic solutions of neutral partial differential equations with infinite delay”, with A. Caicedo, H. Henríquez, *Communications on Pure and Applied Analysis*, American Institute of Mathematical Sciences (AIMS), Volume 12, Number 5, September 2013, pp. 2031-2068, Doi:10.3934/cpaa.2013.12.
28. “ $\ell^p$ -boundedness properties for Volterra difference equations”, with F. Dantas, M. Choquehuanca, H. Soto, *Applied Mathematics and Computation*, Elsevier, Volume 219, Issue 12, 15 February 2013, 6986-6999, DOI 10.1016/j.amc.2012.12.053.
29. “Almost automorphic profile of solutions for difference equations of Volterra type”, with R. P. Agarwal and F. Dantas, *Journal of Applied Mathematics and Computing*, Springer-Verlag, 42 (2013), 1-18, DOI 10.1007/s12190-012-0615-3.
30. “Asymptotic periodicity for strongly damped wave equations”, with C. Lizama and H. Soto, *Abstract and Applied Analysis*, Hindawi Publ. Corp. NY, USA, Volume 2013, Article ID 308616, 14 pages.

31. “Existence of  $S$ -asymptotically  $\omega$ -periodic solutions for two-times fractional order differential equations”, with C. Lizama, Southeast Asian Bulletin of Mathematics, 37 (2013), 683-690.
32. “On the Existence of Almost Automorphic Solutions of Volterra Difference Equations”, with H. Henríquez and C. Lizama, Journal of Difference Equations and Applications, Taylor & Francis, London, UK, 18(11)(2012), 1931-1946.
33. “Asymptotic periodicity and almost automorphy for a class of Volterra integro-differential equations”, with B. de Andrade and E. Henríquez, Mathematical Methods in the Applied Sciences, John Wiley & Sons, 35 (2012), 795-811, DOI: 10.1002/mma.1607.
34. “Semilinear functional difference equations with infinite delay”, with R.P. Agarwal and M. Frasson, Mathematical and Computer Modelling, Elsevier, Vol. 55, No 3-4, pp. 1083-1105, 2012, doi:10.1016/j.mcm.2011.09.033.
35. “Asymptotic behavior of solutions of some semilinear functional differential and integro-differential equations with infinite delay in Banach spaces”, with A. Caicedo, G. Mophou and G. N’Guérékata, Journal of the Franklin Institute, Elsevier, Vol. 349 (2012), 1-24, doi:10.1016/j.jfranklin.2011.02.001.
36. “Pseudo almost automorphic solutions to fractional differential and integro-differential equations”, with G. N’Guérékata and A. Sepulveda, Communications in Applied Analysis, Dynamics Publisher, Inc., 16 (1) (2012), 131-152.
37. “Analytic resolvent operator and existence results for fractional integro-differential equations”, with R.P. Agarwal and J.P. dos Santos, Journal of Abstract Differential Equations and Applications, Vol. 02 (2) (2012), 26-47.
38. “Almost automorphic solutions of hyperbolic evolution equations”, with B. de Andrade and E. Henríquez, Banach Journal of Mathematical Analysis, Vol.06 (1) (2012), 90-100.
39. “Stabilization of Distributed Control Systems with Delay”, with A. Caicedo, H. Henríquez and M. Rabelo, Systems & Control Letters, Elsevier, The Netherlands, Vol. 60 (9) (2011), 675-682, doi:10.1016/j.sysconle.2011.04.012.



40. “High frequency dispersive estimates for the Schrödinger equation in high dimensions”, with F. Cardoso and G. Vodev, *Asymptotic Analysis*, IOS PRESS, The Netherlands. Doi:10.3233/ASY-2010-1020. Volume 71, Number 4 / 2011, 207-225.
41. “Perturbation Theory, Stability, Boundedness and Asymptotic Behavior for Second Order Evolution Equation in Discrete Time”, with A. Castro, *Journal of Difference Equations and Applications*, Taylor & Francis, London, UK, Vol. 17 (3) 2011, 327-358.
42. “Asymptotic periodicity for some evolution equations in Banach spaces”, with R.P. Agarwal, H. Soto and M. El-Gebeily, *Nonlinear Analysis*, 74 (2011), 1769-1798, doi:10.1016/j.na.2010.10.051.
43. “Almost periodic and pseudo-almost periodic solutions to fractional differential and integro-differential equations”, with H. Soto and A. Sepulveda, *Applied Mathematics and Computation*, Elsevier, 218 (2011), 1735-1745. doi:10.1016/j.amc.2011.06.054.
44. “Existence results for a fractional neutral integro-differential equations with state-dependent delay”, with J.P.C. dos Santos and M. Arjunan, *Computer & Mathematics with Applications*, Elsevier, Oxford UK, 62 (2011) 1275-1283. (This paper was one of most read articles in CAMWA during 2011)
45. “Existence results for a fractional equations with state-dependent delay,” with B. de Andrade, and J.P.C. dos Santos, *Advances in Difference Equations*, Volume 2011, Article ID 642013, 15 pages doi:10.1155/2011/642013, Hindawi Publ. Corp. NY, USA.
46. “Weighted  $S$ –asymptotically  $\omega$ –periodic solutions of a class of fractional differential equations”, with M. Pierri and A. Sepulveda, *Advances in Difference Equations*, Hindawi Publ. Corp. NY, USA, Volume 2011, Article ID 584874, 13 pages, doi:10.1155/2011/584874.
47. “Asymptotic periodicity for some classes of integro-differential equations and applications”, with R.P. Agarwal, B. de Andrade and E. Henríquez, *Advances in Mathematical Sciences and Applications*, Volume 21 (1) (2011), 1-31, Gakkotosho Co., Tokyo, Japan.
48. “Solutions of second order abstract retarded functional differential equations on the line”, with H. Henríquez, *Journal of Nonlinear and Convex Analysis*, Yokohama Publishers, Vol 12 (2) (2011), 225-240.

49. "Asymptotic periodicity for a class of partial integro-differential equations", with A. Caicedo, H. Henríquez, ISRN Mathematical Analysis, Hindawi Publ. Corp. NY, USA., Volume 2011 (2011), Article ID 537890, 18 pages doi:10.5402/2011/537890.
50. "Pseudo-almost periodic solutions of a class of semilinear fractional differential equations", with R. P. Agarwal and H. Soto, Journal of Applied Mathematics and Computing, Springer-Verlag, Vol. 37 (1-2) (2011), 625-634.
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103. On the Parabolic Dirichlet to Neumann Functional, Proyecciones, Chile, V.17, 2, 167-176, 1998.

#### **Master Degree Students (work concluded)**

##### **(1) Bruno de Andrade**

1. Equações de evolução Discretas de Segunda Ordem: Regularidade Maximal e Teoria de Perturbação , 2008. Federal University of Pernambuco. Brazil.

##### **(2) Arlúcio da Cruz Viana**

1. Dicotomia exponencial para equações funcionais discretas com retardo infinito, 2009. Federal University of Pernambuco. Brazil.

##### **(3) Giovana Siracusa Gouveia**

1. Um estudo do comportamento assintótico para equações em diferença com retardo infinito, 2009. Federal University of Pernambuco. Brazil.

## (4) Nicolas Zumelzu

1. Um estudo qualitativo das estruturas flexíveis, 2017, Federal University of Pernambuco. Brazil.

**Ph.D. Students (Thesis direction concluded)**

## (1) Luis del Campo

1. “Asymptotic Theory for Retarded Functional Difference Equations”, PH.D. Thesis 2003, Federal University of Pernambuco, Brazil.
2. “An Asymptotic Theory for Retarded Functional Difference Equations”, Computer & Mathematics with Applications, Pergamon-Elsevier, Oxford, UK, v. 49, p. 841-855, 2005.
3. Asymptotic Expansion for Difference Equation with Infinite Delay, Asian-European Journal of Mathematics, World Scientific, v. 2 (1),19-40, 2009.

## (2) Airton Castro

1. Well-posedness of second order evolution equation on discrete time and applications, PHD Thesis 2009, Federal University of Pernambuco, Recife, Brazil.
2. Maximal regularity of the Discrete Harmonic Oscillator Equation. Advances In Difference Equations, Hindawi Publ. Corp. NY, USA, vol. 2009, Article ID 290625, 1-14, 2009.
3. Well-posedness of Second Order Evolution Equation on discrete time, Journal of Difference Equations and Applications, Taylor & Francis, London, UK, 2010, 1-14.
4. Perturbation Theory, Stability, Boundedness and Asymptotic Behavior for Second Order Evolution Equation in discrete time. Journal of Difference Equations and Applications, Taylor & Francis, London, UK, 2011, 327-358.

## (3) Julio Cesar de Souza

1. A regularity theory for certain evolution equations in discrete and continuous time scale, PH.D. Thesis 2009, Federal University of Pernambuco, Recife, Brazil.
2. S-Asymptotically w-periodic solutions of semilinear fractional integro-differential equations, Applied Mathematics Letters, Elsevier-USA, 22, 2009, 865-870.



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5. The complex inversion formula for  $k$ -convoluted semigroup, Applicable Analysis, 91 (15) (2012), 937-946.

(4) Bruno de Andrade

1. A periodicity theory for certain evolution equations, PHD Thesis 2010, Federal University of Pernambuco, Recife, Brazil.
2. Almost automorphic and pseudo-almost automorphic solutions to semilinear evolution equations with nondense domain, Journal of Inequalities and Applications, Hindawi Publ. Corp. NY, USA, vol. 2009, Article ID 2982207, 1-8, doi:10.1155/2009/298207, 2009.
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1. "Asymptotic behavior for functional equations with infinite delay", PHD Thesis 2011, Federal University of Pernambuco, Recife, Brazil.

2. “S-asymptotically  $\omega$ -periodic solutions of abstract partial neutral integro-differential equations”, *Functional Differential Equations*. vol. 17 (1-2), 2010, 387-405.
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(6) Alex Sepulveda

1. Generalized forms of periodicity for fractional and integral differential equations, PHD Thesis 2012, Universidad de La Frontera, Temuco, Chile.
2. Weighted  $S$ -asymptotically  $\omega$ -periodic solutions of a class of fractional differential equations, *Advances in Difference Equations*, Volume 2011, Article ID 584874, 13 pages, doi:10.1155/2011/584874.
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(7) Erwin Henríquez

1. Asymptotic periodicity for a class of partial integro-differential equations, PHD Thesis 2012, Universidad de La Frontera, Temuco, Chile.

2. "Asymptotic periodicity for some classes of integro-differential equations and applications", *Advances in Mathematical Sciences and Applications*, Volume 21 (1) (2011), 1-31, Gakkotosho Co., Tokyo, Japan.
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(8) Filipe Dantas

1. About the behavior of Volterra difference equations, PHD Thesis 2013, Federal University of Pernambuco, Recife, Brazil.
2. "Almost automorphic profile of solutions for difference equations of Volterra type", *Journal of Applied Mathematics and Computing*, Springer-Verlag, 42 (2013), 1-18, DOI 10.1007/s12190-012-0615-3.
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(9) Mario Choquehuanca

1. Boundedness properties and asymptotic behavior of Volterra difference equations, PHD Thesis 2014, University of La Frontera, Temuco, Chile.
2. " $l^p$ -boundedness properties for Volterra difference equations", *Applied Mathematics and Computation*, Elsevier-USA, Volume 219, Issue 12, 15 February 2013, 6986-6999, DOI 10.1016/j.amc.2012.12.053.
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## (10) Clessius Silva

1. Qualitative properties for evolution equations and applications, PHD Thesis 2015, Federal University of Pernambuco, Recife, Brazil.
2. “Asymptotic Periodicity for Flexible Structural Systems and Applications”, *Acta Applicandae Mathematicae*, Springer,(2016) Volume 143, 105-164, DOI 10.1007/s10440-015-0032-3.
3. “Asymptotic periodicity for hyperbolic evolution equations and applications”, *Applied Mathematics and Computation*, Elsevier. Volume 269 (2015), 169-195.

## (11) Filipe Andrade

1. Qualitative theory for evolutionary equations, PHD Thesis 2016, University of Pernambuco, Recife, Brazil.
2. “Periodic solutions of abstract functional differential equations with state dependent delay”, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons., Doi: 10.1002/mmm.3837. To appear.
3. “Asymptotic periodicity for hyperbolic evolution equations and applications”, *Applied Mathematics and Computation*, Elsevier. Volume 269 (2015), 169-195.
4. “ $L^p$ -boundedness and topological structure of solutions for flexible structural systems”, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons., (38) 2015, 5139-5159

## (12) Aldryn Aparcana

1. Fractional evolution equations and applications, PHD Thesis 2018, University of Pernambuco, Recife, Brazil.
2. “Fractional evolution equations and applications”, *Mathematical Methods in the Applied Sciences*, John Wiley & Sons, 2017;1-25, doi: 10.1002/mma.4662.
3. “About a composite fractional relaxation equation via regularized families”, *Scientia Iranica, Transactions B: Mechanical Engineering*, Iran. To appear.

## (13) Joelma Azevedo

1. “Qualitative theory for some partial differential equations, PHD Thesis 2018, University of Pernambuco, Recife, Brazil.

2. “Qualitative theory for strongly damped wave equations”, Mathematical Methods in the Applied Sciences, John Wiley & Sons, 2017;1-32, DOI: 10.1002/mma.4504.
3. “Existence and asymptotic behaviour for the time-fractional Keller-Segel model for chemotaxis“, Mathematische Nachrichten, 2018, 1-19.

(14) Felix Bernardo

1. “Qualitative theory for Volterra difference equations“, PHD Thesis 2018, University of Pernambuco, Recife, Brazil.
2. “Qualitative theory for Volterra difference equations”, Mathematical Methods in the Applied Sciences, John Wiley & Sons, 2018; 1-36.

**Postdoctoral Student (work concluded)**

- (1) Miguel Frasson, PhD. Universidade de Leiden, The Netherlands, 01/01/2011-31/12/2011.
  1. “Semilinear functional difference equations with infinite delay”, Mathematical and Computer Modeling, Elsevier, v. 55, No 3-4, pp. 1083-1105, 2012.
  2. “Asymptotic behavior of solutions to linear neutral delay differential equations with periodic coefficients”.

**EDITORIAL RESPONSIBILITIES**

1. Mathematical Methods in the Applied Sciences, John Wiley & Sons, Editorial Board (2015- Nowadays).
2. Open Mathematics, De Gruyter Open. Editorial Board (2015- Nowadays).
3. Afrika Matematika, Springer. Editorial Board (2016- Nowadays).
4. International Journal of Evolution Equations, Editorial Board.
5. Journal of Fractional Calculus and its Application, Editorial Board.
6. Fractional Differential Calculus, Croatia, Editorial Office.
7. Progress in Electromagnetic Research (PIER), Editorial Board (2012- Nowadays).
8. Scientia Iranica, Elsevier-USA. Editorial Board.

9. Proceedings of A. Razmadze Mathematical Institute, Editorial Board, Tbilisi-Georgia (2013- Nowadays).
10. Southeast Asian Bulletin of Mathematics, Editorial Board.
11. Communications in Mathematical Analysis, Research India Publ. Editorial Board.
12. International Journal of Mathematics and Computer Science, Editorial Board.
13. Bulletin of Mathematical Analysis and Applications, Editorial Board.
14. SCIENTIA, Series A: Mathematical Sciences, Editorial Board.
15. Journal of Contemporary Applied Mathematics, Editorial Board.
16. Journal of Nonlinear Evolution Equations and Applications, Editorial Board.
17. International Journal of Contemporary Mathematics, Editorial Board.
18. Journal of Mathematics and System Science, Editorial Board.
19. Mathematical Sciences Letters, An International Journal, Natural Sciences Publishing Corporation, Editorial Board.
20. Electronic Journal of Mathematical Analysis and Applications, Editorial Board.
21. Malaya Journal of Matematik, Editorial board.
22. Studies in Mathematical Sciences, Publisher Canadian Research & Development Center of Sciences and Cultures (CRDCSC). [cscanada.net/index.php/sms/about/editorialTeam](http://cscanada.net/index.php/sms/about/editorialTeam)
23. ARPN Journal of Science and Technology, Editorial Board.
24. Far East Journal of Mathematical Sciences (FJMS), Editorial Board, (2010-Nowadays).
25. Far East Journal of Applied Mathematics (FJAM), Editorial Board, (2015-Nowadays).
26. Asian Journal of Current Engineering & Math's (AJCEN), Editorial Board, (2013-Nowadays).
27. Appl. Math. Comput. Sci., Mili Publications, Editorial Board, (2013- Nowadays).
28. Journal of Advances in Mathematics, Council for Innovative Research, Editorial Board, (2013- Nowadays).

## FORMER EDITORIAL RESPONSIBILITIES

1. Cubo Matemática Educacional. Chief Editor (1998-2004).
2. Cubo A Mathematical Journal (An International Journal). Chief Editor (2004-2010).
3. British Journal of Mathematics and Computer Science, Editorial Board (2010-2012).
4. Annals of Functional Analysis, Duke University Press, Editorial Board (2010-2015).
5. Advances in Difference Equations, Springer-Verlag. Editorial Board (2010- 2017).
6. International Journal of Applied and Computational Mathematics, Springer, Editorial Board.
7. The Journal of Nonlinear Science and Applications, Editorial Board.
8. International Journal of Nonlinear Analysis and Applications, Editorial Board.

## REVIEWER

1. Referee for Birkhäuser Switzerland.
2. Referee for de Gruyter Studies in Mathematics.
3. Referee for CRC Press, Taylor & Francis Books.
4. Referee for e-books Bentham Science Publishers.
5. Reviewer for National Research Council of Chile (CONICYT, Chile).
6. Referee for Hindawi Publishing Corporation, USA.
7. Referee for election of Associate Fellow of TWAS (The academy of sciences for the developing world).
8. Referee for São Paulo Research Foundation (FAPESP). FAPESP is an independent public foundation with the mission to foster research and the scientific and technological development of the State of São Paulo, Brazil.
9. Referee for Journal of Differential Equations, Elsevier.
10. Referee for Acta Applicandae Mathematicae, Kluwer Academic Publishers, The Netherlands.

11. Referee for the Rendiconti del Circolo Matematico di Palermo Series 2, Springer.
12. Referee for Journal of Mathematical Analysis and Applications, Elsevier.
13. Referee for Mathematiche Nachrichten, John Wiley & Sons.
14. Referee for the 1st International Conference on Mathematics and Mathematical Sciences, ICMMS 2012, India.
15. Referee for the Journal of Computational and Applied Mathematics, North-Holland.
16. Referee for Nonlinear Analysis. Real World Applications, Elsevier, USA.
17. Referee for Applied Mathematics and Computation, Elsevier, USA.
18. Referee for the Journal of Electromagnetic Waves and Applications, Springer-Verlag.
19. Referee for Discrete Dynamics in Nature and Society, Hindawi Publ.
20. Referee for the Advances in Difference Equation, Springer-Verlag.
21. Referee for the Commum. Math. Anal., Research India Publ.
22. Referee for the Journal of Difference Equations and Applications, Taylor & Francis, London, UK.
23. Referee for Applied Mathematics Letters, Elsevier, USA.
24. Referee for Computational and Applied Mathematics, Sociedade Brasileira de Matemática Aplicada e Computacional. Brazil.
25. Referee for Applicable Analysis, Taylor & Francis, London, UK.
26. Referee for Electronic Journal of Differential Equations
27. Referee for Computer & Mathematics with Applications, Elsevier, USA
28. Referee for Mathematical and Computer Modelling, Elsevier, USA.
29. Referee for Fixed Point Theory and Applications, Hindawi Publ. Corp. NY, USA.
30. Referee for Mathematical Problems in Engineering, Hindawi Publ. Corp. NY, USA.
31. Referee for Abstract and Applied Analysis, Hindawi Publ. Corp. NY, USA.



32. Referee for Revista Matemática Complutense, Springer-Verlag.
33. Referee for Complex Variables and Elliptic Equations, Taylor & Francis, London, UK.
34. Referee for International Journal of Bifurcation and Chaos, World Scientific, USA.
35. Referee for Applied Mathematical Modelling, Elsevier, USA.
36. Referee for the Bulletin of the Malaysian Mathematical Sciences Society.
37. Referee for Differential Equations and Dynamical Systems, Springer-Verlag.
38. Referee for MATHEMATICA ÆTERNA, HILARIS LTD. Bulgaria European Union.
39. Referee for Azerbaijan Journal of Mathematics, Taylor & Francis, London, UK.
40. Referee for Dynamics of Continuous, Discrete and Impulsive System, Watam Press Canada.
41. Referee for Journal of Fractional Calculus and Applications Egypt.
42. Referee for the Armenian Journal of Mathematics.
43. Referee for Proceedings of A. Razmadze Mathematical Institute.
44. Referee for Nonlinear Studies, USA.
45. Referee for Annales Polonici Mathematici, Poland.
46. Referee for Journal of Applied Mathematics, Hindawi Publ. Corp. NY, USA.
47. Referee for International Journal of Differential Equations, Hindawi Publ. Corp. NY, USA.
48. Referee for Africa Mathematica Journal, Springer-Verlag.
49. Referee for Acta Mathematica Scientia, China.
50. Referee for the Scientific Research and Essays (SRE), ISSN 1992-2248.
51. Referee for Scientia Iranica, Elsevier-USA.
52. Referee for Zeitschrift fuer Angewandte Mathematik und Physik (ZAMP), Springer, Germany.

53. Referee for Science China Mathematics, China.
54. Referee for Collectanea Mathematica.
55. Referee for the British Journal of Mathematics and Computer Science.
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