Professor. Miguel José Vivas Cortez, PhD
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Research Interests

Dr. Miguel Vivas-Cortez was born in Acarigua, Portuguesa State, Venezuela. He earned his degree in Mathematics from the Universidad Centroccidental Lisandro Alvarado (UCLA), where he also obtained an M.Sc. in Mathematics, specializing in Pure Mathematics. His master's thesis, which investigated a Lotka–Volterra-type competitive system with infinite delay, was published in the prestigious Q1 Scopus-indexed journal *Nonlinear Analysis: Real World Applications* (United Kingdom). See: https://doi.org/10.1016/j.nonrwa.2005.09.005.

He received his Ph.D. in Sciences, specializing in Mathematics, from the Central University of Venezuela (Universidad Central de Venezuela, UCV). His doctoral research extended the notion of bounded variation to functions defined on compact subsets of the complex plane (https://doi.org/10.14708/cm.v54i1.757) and resulted in four publications in prestigious international journals.

Dr. Vivas-Cortez has authored more than 200 scientific publications indexed in Scopus and accumulated over 1,800 citations. His research has appeared in leading Q1 journals according to Scimago Journal & Country Rank, including *Journal of Inequalities and Applications*, *Boundary Value Problems*, *Rendiconti del Circolo Matematico di Palermo, Series 2*, and *Numerical Algorithms*.

In *Numerical Algorithms*, he contributed to the development of a conformable iterative fixed-point method that offers several important advantages over the classical Newton–Raphson method. By employing the conformable derivative, which does not require the evaluation of special functions such as the Gamma or Mittag-Leffler functions, the method maintains a relatively low computational cost while preserving theoretical quadratic convergence in practice. It also demonstrates robustness in situations where Newton–Raphson may fail, including cases involving zero derivatives, inflection points, and iterations outside the domain. Furthermore, it can obtain complex roots from real initial guesses and expand the basins of attraction by varying the free parameter ($\alpha \in (0,1]$), with the classical Newton–Raphson method recovered as the limiting case when ($\alpha \to 1$).

Dr. Miguel Vivas-Cortez has also published in *Scientific Reports*, a journal belonging to the Nature Portfolio and indexed in the Web of Science, which is generally classified in Q1 in relevant subject categories. His notable contributions include *"Analysis of inverse problem for pseudo-hyperbolic equation under periodic boundary condition"* (2025) and *"A comprehensive analytical study of solitons and nonlinear dynamics in a concatenated DNLS-type model"* (2026).

Among his internationally influential publications are two articles in the *Journal of Computational Design and Engineering*, published by Oxford University Press and classified in Q1 according to Scopus-based rankings. In *"Unfolding some numerical solutions for the magnetohydrodynamics Casson–Williamson nanofluid flow over a stretching surface"* (Vol. 11, 2024), he served as corresponding author. In *"Investigating the influence of square size vanes on heat transfer in porous media: An in-depth Nusselt distribution"* (Vol. 12, 2025), he served as senior author (last author). These contributions reflect his active research leadership in internationally collaborative applied mathematics.

Dr. Vivas-Cortez has supervised numerous undergraduate dissertations, master's theses, and doctoral research projects in several areas, including differential equations and ecological models; fractional and generalized derivatives, both conformable and non-conformable; nonlinear analysis and generalized convexity; and functional analysis, particularly generalized bounded variation functions.

He is also the author of several textbooks, including *Linear Algebra: A Practical Approach*, *Differential Calculus for Science and Engineering*, *Mathematics Before Calculus*, and *One-Variable Complex Analysis*, among others.

According to SciVal/Scopus productivity data, he was ranked among the world's 100 most productive mathematicians in the field of analysis during 2018–2023, based on publication output indexed in Scopus. According to the same source, for the period 2019–2025, he ranked first in Ecuador and sixth in Latin America in scientific productivity in mathematics.

International Rankings and Research Recognition

Dr. Miguel Vivas-Cortez is listed in the **Scholarly Index Top 1000 Scholars 2026** ranking (https://scholarlyindex.com/scholars/SI-048dba8b579b00c2b2e5dc978f154bdc?page=1&window=all), with 27 verified recognitions.

Recent Impact Rankings (2021–2025)

Functional Equations Stability Results: Ranked **12th worldwide** among 905 researchers (top 1.4%).

Applied Mathematics: Ranked **15th worldwide** among 43,533 researchers, placing him in the **top 0.09% globally**, with an impact score of 99.64.

Mathematical Inequalities and Applications: Ranked **18th worldwide** among 1,118 specialists (top 1.7%).

Mathematical Functions and Polynomials: Ranked **22nd worldwide** among 1,875 authors (top 1.2%).

Numerical Analysis: Ranked **75th worldwide** among 10,081 researchers (top 3.4%).

Geometry and Topology / Modeling and Simulation: Ranked **94th worldwide** in both disciplines.

Mathematics and Statistics (overall category): Ranked **105th worldwide** among 169,638 scientists evaluated, placing him in the **top 0.16% globally** in this category.

Lifetime Rankings

Mathematical Inequalities and Applications: Ranked **87th worldwide** among 3,969 researchers over their entire academic careers.

Functional Equations Stability Results: Ranked **135th worldwide** among 5,532 researchers globally.

Stanford–Elsevier Top 2% Scientists Ranking

Dr. Miguel Vivas-Cortez was included in the **2026 edition of the World's Top 2% Scientists list**, compiled through the Stanford University–Elsevier collaboration, in the field of Mathematics and Statistics, within the Applied Mathematics subfield. He ranked **553rd worldwide** in this subfield.

Profile: https://topscinet.com/scientist_profile/Vivas-Cortez,%20Miguel/2006/?stype=single_year

Academic and Teaching Career

Dr. Vivas-Cortez has more than 28 years of experience teaching mathematics at the undergraduate, master's, and doctoral levels. In 1997, he obtained a permanent academic position through a competitive examination in complex analysis at the Universidad Centroccidental Lisandro Alvarado (UCLA), where he worked until October 2017. During his career, he served as a full professor at UCLA and as a visiting professor at the Universidad Nacional Arturo Prat in Chile. From October 2016 to September 2017, he was also a visiting and part-time professor at the Escuela Superior Politécnica del Litoral (ESPOL) in Guayaquil, Ecuador.

In addition to his research and teaching, he actively promotes scientific outreach in mathematics through public lectures, research seminars, and scientific presentations at national and international institutions. He has been invited on several occasions to deliver keynote and opening lectures at the International Meeting of Mathematics (Encuentro Internacional de Matemáticas, EIMAT), held at Universidad del Atlántico.

Editorial, Reviewing, and Professional Activities

Dr. Vivas-Cortez has evaluated national and international research projects and served as a peer reviewer for numerous internationally indexed journals, including Scopus-indexed publications. He has also served as a guest editor for *Journal of Mathematics*, is a member of the American Mathematical Society's Mathematical Reviews reviewer community, and has participated on the editorial boards of several national and international journals.

He is a member of the editorial board of the *Innovative Journal of Mathematics* (https://www.sigmawings.com/journals/index.php/IJM/editorialboard2) and serves as an Associate Editor of the *Journal of Inequalities and Special Functions* (journal information: https://mjl.clarivate.com/search-results?issn=2217-4303).

Awards and Institutional Affiliation

Dr. Vivas-Cortez has received Venezuela's Research Incentive Award (*Premio Estímulo a la Investigación*, PEI) and Research Promotion Award (*Premio Promoción a la Investigación*, PPI). In 2025, he received the **Pedro Vicente Maldonado Award** from the Municipality of Quito for the best scientific work in the Exact Sciences.

Since September 17, 2017, he has served as a **Principal Professor 3 and high-productivity scientific researcher** at the Faculty of Exact, Natural, and Environmental Sciences of the Pontifical Catholic University of Ecuador (Pontificia Universidad Católica del Ecuador, PUCE), Quito campus. He joined the university after winning a competitive academic appointment examination with a score of 97/100.

Research Interests and Leadership

His principal research interests include ordinary and fractional differential equations, functional analysis—particularly functions of bounded variation—and nonlinear analysis, with a focus on generalized convexity and integral inequalities.

Dr. Miguel Vivas-Cortez is the **founder and research leader of FRACTAL (Fractional Research in Analysis, Convexity and their Applications Laboratory)**, a research group dedicated to advancing mathematical analysis, fractional calculus, generalized differential operators, convexity theory, and their applications.

Employment

Faculty of Exact, Natural, and Environmental Sciences
Pontifical Catholic University of Ecuador
9 Aug 2009 → present

Fractional Research in Analysis, Convexity, and Their Applications Laboratory
Pontifical Catholic University of Ecuador
1 Jan 2023 → present

Biological Sciences
Pontifical Catholic University of Ecuador
1 Jan 2019 → present

PUCE Quito
Pontifical Catholic University of Ecuador
8 Aug 2009 → present

Research outputs

Transformada doble de Laplace non-conformable generalizada
Cedeño-Mendoza, S., Vivas-Cortez, M., Jarrín, H. D. & Velasco-Velasco, J., 4 Jul 2026, In: Revista de la Academia Colombiana de Ciencias Exactas, Fisicas y Naturales. 50, 196, p. 873-895 23 p.

Exploring Solutions' Families of the Fractional Hirota-Satsuma Coupled KdV Equation via Extended Direct Algebraic Method
Wael W. , M., Vivas-Cortez, M., Bilal, M., Ahmad Yousif, M., K. Ahmed, K. & Mohammed, P. O., 3 Jun 2026, In: Contemporary Mathematics (Singapore). 7, 1, p. 3929-3960 32 p.

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Muhmmad Jabir Khan, Muhammad Bilal Khan, Altaf Alshuhail & Khaled Mohamed Khedher, 29 May 2026, In: Contemporary Mathematics (Singapore). 7, 3, p. 3738-3768 31 p.

Some Application of Fuzzy Third-Order Subordination and Superordination Associated with Zeta-Riemann Fractional Differential Operator
Ali, E. E., El-Ashwah, R. M., Sidaoui, R., Al-Askary, S. K. & Vivas-Cortez, M., 13 May 2026, In: Contemporary Mathematics. 7, 3, p. 3281-3308 28 p.

A Generalized Local Fractional Laplace Transform via a Unified Derivative Operator
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Una variación de la Transformada Doble de Laplace No-Conformable
Jarrín, H. D., Marcillo-Parra, J. L., Velasco-Velasco, J. & Vivas-Cortez, M., 3 Mar 2026, In: Revista de la Academia Colombiana de Ciencias Exactas, Fisicas y Naturales. 50, 194, p. 213-233 21 p.

Fractional Calculus: A 300-Year Perspective on Operators, Applications, and Modern Generalizations
Norlen Meléndez & Oramys Prieto-Arima, 16 Feb 2026, In: REVISTA BASES DE LA CIENCIA. 11, 1, p. 18-31 14 p.

Variable-Order Fractional Delay Differential Equations with Integral Boundary Values: A Study on Existence, Uniqueness, and Stability
Muhammad Imran Liaqa, Vivas-Cortez, M. & Majeed Ahmad Yousif, 16 Feb 2026, In: European Journal of Pure and Applied Mathematics. 19, 1, p. 1-27 6855.

Analysis of fractional magnetized force field flow in a unit sphere via Fermi-Walker fractional derivative
Ogrenmis, M., Abbas, M., Ogrenmis, A. O., Vivas-Cortez, M. & Elzibar, O. A. I., 1 Jan 2026, In: Open Physics. 24, 1, 20250293.

Bifurcation analysis and investigations of optical soliton solutions to fractional generalized third-order nonlinear Schrödinger equation
Inayat, M., Abbas, M., Yousaf, M. Z., Hamed, Y. S., Nazir, T. & Vivas-Cortez, M., 1 Jan 2026, In: Open Physics. 24, 1

Soliton, stability, multistability, and diverse tools for identifying chaos in a nonlinear model with two modified methods
Usman, T., Alam, N., Ullah, M. S., Vivas-Cortez, M., Abbas, M. & Singh, S., 1 Jan 2026, In: Nonlinear Engineering. 15, 1, 20250180.

Estudio sobre la relación entre algunas características sociodemográficas de estudiantes universitarios de ingreso y la ansiedad hacia la matemática
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Analysis of Maclaurin's inequality with applications in numerical analysis
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Applications of newly defined diamond Pythagorean fuzzy CODAS method via multi-criteria decision-making problems
Khan, M. B., Cortez, M. V., Bin-Mohsin, B., Ciurdariu, L. & Zamri, N., 12 Dec 2025, In: PLoS ONE. 20, 12, e0325018.

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Bağlan, İ., Yernazar, A., Aslan, E., Budak, H. & Vivas-Cortez, M., Dec 2025, In: Scientific Reports. 15, 1, 41218.

Existence and stability of a mild solution to an abstract sequential time-fractional diffusion equation of pantograph type
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A conformable fractional iterative fixed-point method for solving one-dimensional nonlinear equations
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Generalized Extended Confluent, Whittaker k-Functions and Their Properties
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NEW APPLICATIONS OF THE FRACTIONAL DERIVATIVE TO EXTRACT ABUNDANT SOLITON SOLUTIONS OF THE TIME FRACTIONAL ZAKHAROV–KUZNETSOV–BENJAMIN–BONA–MAHONY EQUATION IN MATHEMATICAL PHYSICS
Bibi, A., Lupas, A. A., Abbas, M., Iqbal, M. K., Hamed, Y. S. & Vivas-Cortez, M., 19 Jun 2025, In: Fractals. 33, 8, 2540091.

Extended Grüss type inequalities for generalized (l, m)-fractional integrals with applications
Yousaf, M., Iqbal, S., Samraiz, M. & Vivas-Cortez, M., 29 May 2025, In: Journal of Mathematics and Computer Science. 40, 1, p. 22-37 16 p.

SOBRE UNA DERIVADA GENERALIZADA DE DOS PARÁMETROS
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A refined class of harmonically convex functions and Bullen- Mercer-type inequalities
Ali, S., Samraiz, M., Naheed, S., Vivas-Cortez, M. & Elmasry, Y., 21 May 2025, In: Journal of Mathematics and Computer Science. 39, 4, p. 500-521 22 p.

Some New Versions of Various Inequalities over Trapezoidal Fuzzy Codomain
Khan, M. B., Wong, P. J. Y., Cortez, M. V., Zamri, N. & Ciurdariu, L., 14 Apr 2025, In: International Journal of Analysis and Applications. 23, 87.

Exploring the solutions of tempered (κ,ϖ)-Hilfer hybrid implicit boundary value problem
Salim, A., Thabet, S. T. M., Rafeeq, A. S., Samei, M. E., Kedim, I. & Vivas-Cortez, M., Apr 2025, In: Alexandria Engineering Journal. 119, p. 138-148 11 p.

New Extension of Inequalities through Extended Version of Fractional Operators for s-Convexity with Applications
Vivas-Cortez, M., Ali, R. S., Talib, N., Kebaili, I., Boukhris, I. & Rahman, G., Apr 2025, In: European Journal of Pure and Applied Mathematics. 18, 2, 5997.

Some Minkowski's inequalities involving linear differential operator with associated green function
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Analytical approach to parabolic flows along with inclined plate with uniform diffusion of mass
Vivas-Cortez, M., Mani, G., Pushparaj, S., Rajamanickam, M. & Thabet, S. T. M., 22 Mar 2025, In: Journal of King Saud University - Science. 37, 1, 6 p., 1402024.

Common Fixed Point Techniques in Bipolar Orthogonal Metric Space With Applications to Economic Problem and Integral Equation
Vivas-Cortez, M., Thabet, S. T. M., Mani, G., Janardhanan, G. & Kedim, I., 1 Mar 2025, In: International Journal of Analysis and Applications. 23, p. 23-52 21 p., 52.

A comprehensive study of wave dynamics in the (4+1)-dimensional space-time fractional Fokas model arising in physical sciences
Vivas-Cortez, M., Farooq, F. B., Raza, N., Alqahtani, N. A., Imran, M. & Nazir, T., Mar 2025, In: Alexandria Engineering Journal. 115, p. 238-251 14 p.

Some problems of mesh R−L electrical circuits using fractional calculus
Jadhav, C. P., Dale, T. B., Chinchane, V. L., Nale, A. B., Thabet, S. T. M., Kedim, I. & Vivas-Cortez, M., Mar 2025, In: Alexandria Engineering Journal. 115, p. 111-118 8 p.

In situ deformation behavior of laser additive manufacturing Ti-6Al-4V alloy at room and high temperatures: A review
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Ibrahim, I. S., He, J.-H., Chorfi, N., Yousif, M. A., Mohammed, P. O. & Vivas-Cortez, M., Feb 2025, In: Symmetry. 17, 2, 192.

Hyers–Ulam–Rassias Stability of Functional Equations with Integrals in B-Metric Frameworks
Jakhar, J., Sharma, S., Jakhar, J., Yousif, M. A., Mohammed, P. O., Chorfi, N. & Vivas-Cortez, M., 23 Jan 2025, In: Symmetry. 17, 2, 168.

Investigating the influence of square size vanes on heat transfer in porous media: An in-depth Nusselt distribution
Jalili, B., Bahmani, M., Jalili, P., Liu, D., Alderremy, A. A., Ganji, D. D. & Vivas-Cortez, M., 1 Jan 2025, In: Journal of Computational Design and Engineering. 12, 1, p. 1-14 14 p.

High-Accuracy Solutions to the Time-Fractional KdV–Burgers Equation Using Rational Non-Polynomial Splines
Vivas-Cortez, M., Yousif, M. A., Mahmood, B. A., Mohammed, P. O., Chorfi, N. & Lupas, A. A., Jan 2025, In: Symmetry. 17, 1, 16.

A NEW FORMULATION AND ANALYTICAL APPLICATIONS OF FRACTIONAL OPERATORS
Mehmood, A., Samraiz, M., Liu, Z. G., Baleanu, D. & Vivas-Cortez, M., 2025, In: Fractals. 33, 3, 2450130.

A New Generalized Local Derivative of Two Parameters
Vivas-Cortez, M., VELASCO VELASCO, J. & Harrín, H. D., 2025, In: Applied Mathematics and Information Sciences. 19, 3, p. 713-723 11 p.

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COMPARISON OF SOLITON BEHAVIOR OF LAKSHMANAN-PORSEZIAN-DANIEL MODEL FOR TWO KINDS OF FRACTIONAL DERIVATIVES
Vivas-Cortez, M., Atta Ullah Khan, M., Akram, G., Sadaf, M., Abbas, M., Ahmad, H. & Alharthi, M. R., 2025, (Accepted/In press) In: Fractals. 2540277.

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FRACTAL INTEGRAL INEQUALITIES FOR GENERALIZED HARMONICALLY CONVEX FUNCTIONS USING LOCAL FRACTIONAL INTEGRALS AND RAINA'S MAPPING WITH RELATED APPLICATIONS
Chen, L., Radwan, T., Shah, A. F., Vivas-Cortez, M. & Saleem, M. S., 2025, In: Fractals. 33, 8, 2540150.

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Vivas-Cortez, M. (Guest editor), 2025, Pakistán: PSR Press. 315 p.

NEW APPLICATIONS OF THE FRACTIONAL DERIVATIVES TO EXTRACT ABUNDANT SOLITON SOLUTIONS OF THE FRACTIONAL ESTEVEZ-MANSFIELD-CLARKSON EQUATION IN MATHEMATICAL PHYSICS
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Pandurangan, R., Thabet, S. T. M., Kedim, I. & Vivas-Cortez, M., 2025, In: AIMS Mathematics. 10, 1, p. 972-987 16 p.

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Vivas-Cortez, M., Nageen, M., Abbas, M., Ala, V. & Alharthi, M. R., 2025, (Accepted/In press) In: Fractals. 2540262.

Hyperbolic Non-Polynomial Spline Approach for Time-Fractional Coupled KdV Equations: A Computational Investigation
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Vivas Cortez, M. J., Jul 2013, *Efectos de un curso de matemáticas previas al cálculo en el rendimiento académico en la asignatura matemática I en una ingeniería del decanato de ciencias de la UCLA.*

Extinction in a two dimensional Lotka-Volterra system with infinite delay
Montes de Oca, F. & Vivas, M., Dec 2006, In: Nonlinear Analysis: Real World Applications. 7, 5, p. 1042-1047 6 p.

Press/Media

Findings from Pontifical Catholic University of Ecuador in Mathematics Reported (Investigation of Analytical Soliton Solutions to the Non-Linear Klein-Gordon Model Using Efficient Techniques)
Vivas-Cortez, M.
10/09/24
1 item of Media coverage

Findings from Pontifical Catholic University Yields New Findings on Mathematics (On a New Structure of Multi-term Hilfer Fractional Impulsive Neutral Levin-nohel Integrodifferential System With Variable Time Delay)
Vivas Cortez, M. J.
9/04/24
1 item of Media coverage

Hassiba Benbouali University of Chlef Researchers Reveal New Findings on Engineering [Exploring the solutions of tempered (k,p)-Hilfer hybrid implicit boundary value problem]
Vivas-Cortez, M.
7/04/25
1 item of Media coverage

New Computer Science Study Results Reported from Pontifical Catholic University of Ecuador (Application of an Extended Cubic B-Spline to Find the Numerical Solution of the Generalized Nonlinear Time-Fractional Klein-Gordon Equation in ...)
Vivas-Cortez, M.
15/05/24
1 item of Media coverage

New Findings in Mathematics Described from Pontifical Catholic University of Ecuador (Lump, Breather, Ma-Breather, Kuznetsov-Ma-Breather, Periodic Cross-Kink and Multi-Waves Soliton Solutions for Benney-Luke Equation)
Vivas-Cortez, M.
9/07/24
1 item of Media coverage

New Findings on Mathematics from Pontifical Catholic University Summarized (On Opial-type Inequality for a Generalized Fractional Integral Operator)
Vivas Cortez, M. J.
8/11/22
1 item of Media coverage

New Mathematics Study Findings Have Been Reported from Government College University (A New Approach To Error Inequalities: From Euler-maclaurin Bounds To Cubically Convergent Algorithm)
Vivas-Cortez, M.
22/01/25
1 item of Media coverage

Pontificia Universidad Catolica del Ecuador Researchers Detail Research in Mathematics (Raina's Function-Based Formulations of Right-Sided Simpson's and Newton's Inequalities for Generalized Coordinated Convex Functions)
Vivas Cortez, M. J.
15/08/23
1 item of Media coverage

Pontificia Universidad Catolica del Ecuador Researchers Provide New Insights into Inequalities and Applications (A modified class of Ostrowski-type inequalities and error bounds of Hermite-Hadamard inequalities)
Vivas Cortez, M. J.
27/10/23
1 item of Media coverage

Researchers at Anhui Xinhua University Target Science and Technology (Bifurcation study, phase portraits and optical solitons of dual-mode resonant nonlinear Schrodinger dynamical equation with Kerr law non-linearity)
Vivas-Cortez, M.
14/08/24
1 item of Media coverage

Researchers at Hashemite University Have Reported New Data on Mathematics [On Local Fractional Integral Inequalities Via Generalized ((Sic)1, (Sic) 2) -preinvexity Involving Local Fractional Integral Operators With Mittag-leffler Kernel]
Vivas Cortez, M. J.
4/07/23
1 item of Media coverage

Researchers at Pontifical Catholic University of Ecuador Report Research in Mathematics (Hyperbolic Non-Polynomial Spline Approach for Time-Fractional Coupled KdV Equations: A Computational Investigation)
Vivas-Cortez, M.
9/01/25
1 item of Media coverage

Researchers from COMSATS University Islamabad Detail Research in Mathematical and Computer Modelling (Harmonic conformable refinements of Hermite-Hadamard Mercer inequalities by support line and related applications)
Vivas-Cortez, M.
9/12/24
1 item of Media coverage

Research from Pontifical Catholic University of Ecuador in the Area of Mathematics Published (Abundant Soliton Solutions to the Generalized Reaction Duffing Model and Their Applications)
Vivas-Cortez, M.
19/07/24
1 item of Media coverage

Research from Pontificia Universidad Catolica del Ecuador in Mathematics Provides New Insights [On local fractional integral inequalities via generalized (h~1,h~2)\left({\tilde{h)_{1},{\tilde{h)_{2})-preinvexity involving local fractional ...]
Vivas-Cortez, M.
21/06/23

1 item of Media coverage

Research from University of Sargodha Provides New Data on Science and Technology (Advancements in Bullen-type inequalities via fractional integral operators and their applications)
Vivas-Cortez, M.
23/09/24
1 item of Media coverage

Studies from Pontifical Catholic University of Ecuador Yield New Data on Mathematics (Improved Fractional Differences with Kernels of Delta Mittag-Leffler and Exponential Functions)
Vivas-Cortez, M.
13/01/25
1 item of Media coverage

Studies from Pontifical Catholic University Update Current Data on Mathematics (New Results About Fuzzy G-convex Functions Connected With the Q-analogue Multiplier-noor Integral Operator)
Vivas Cortez, M. J.
1/03/24
1 item of Media coverage

Study Findings from Faculty of Exact and Natural Sciences Advance Knowledge in Engineering (Bullen-Mercer type inequalities with applications in numerical analysis)
Vivas-Cortez, M.
6/06/24
1 item of Media coverage

Study Findings on Axioms Are Outlined in Reports from Pontificia Universidad Catolica del Ecuador (Generalized Fuzzy-Valued Convexity with Ostrowski's, and Hermite-Hadamard Type Inequalities over Inclusion Relations and Their Applications)
Vivas-Cortez, M.
12/08/24
1 item of Media coverage

Study Findings on Engineering Described by Researchers at East China Normal University (Uniqueness property of the generalized Laplace transform and computational visualization of electromagnetic waves in plasma via fractional operators)
Vivas-Cortez, M.
5/09/25
1 item of Media coverage

Study Findings on Information and Data Theories Reported by Researchers at University of Okara (Fractional Hermite-Hadamard-Mercer-Type Inequalities for Interval-Valued Convex Stochastic Processes with Center-Radius Order and Their Related ...)
Vivas-Cortez, M.
13/08/24
1 item of Media coverage

University of Sargodha Researchers Highlight Research in Engineering (Fractional integral inequalities and error estimates of generalized mean differences)
Vivas-Cortez, M.
7/05/24
1 item of Media coverage

University of Sargodha Researchers Provide New Insights into Engineering (Visualizing fractional inequalities through 2D and 3D graphs with applications)
Vivas-Cortez, M.
6/05/24
1 item of Media coverage

Student theses

FUNCIONES DE VARIACIÓN ACOTADA GENERALIZADA SOBRE SUBCONJUNTOS DEL PLANO COMPLEJO
Vivas Cortez, M. J. (Author), Giménez, J. (Supervisor), 9 Oct 2014

Extinción en Sistemas del tipo Lotka-Volterra con Retardo
Vivas-Cortez, M. (Author), Montes de Oca, F. (Supervisor), 2007

Qualifications

Master, Master in Mathematics: Pure Mathematics Mention, Universidad Centroccidental Lisandro Alvarado, Universidad Centroccidental Lisandro Alvarado
1997 → 2002

PhD, Doctor of Sciences, Mention in Mathematics., Universidad Central de Venezuela

Bachelor of Mathematical Sciences (Mathematician), Universidad Centroccidental Lisandro Alvarado, Universidad Centroccidental Lisandro Alvarado

Activities

Simposio MEM 2025
Vivas Cortez, M. J. (Speaker)
19 Feb 2025 → 22 Feb 2025

A New Generalized Local Derivative of Two Parameters
Vivas Cortez, M. J. (Speaker)
2025

a Two-Parameter Local Operators: A New Tool for Differential Analysis
Vivas Cortez, M. J. (Speaker)
2025

Algunos resultados sobre derivadas fraccionarias y generalizadas
Vivas Cortez, M. J. (Speaker)
13 Nov 2024 → 15 Nov 2024

Some results on a new generalized local derivative of two parameters.
Vivas Cortez, M. J. (Speaker)
Nov 2024

Fractales y la derivada Fractal, a la caza de la dimensión oculta
Vivas Cortez, M. J. (Speaker)
Feb 2024

Fractal Derivative, Some results
Vivas Cortez, M. J. (Speaker)
2024

XX Encuentro Internacional de Matemáticas
Vivas Cortez, M. J. (Speaker)
2024

Derivadas generalizadas, Nuevas tendencias y resultados recientes
Vivas Cortez, M. J. (Speaker)

8 Nov 2023 → 10 Nov 2023

Derivada Fractal Exponencial
Vivas Cortez, M. J. (Speaker)
24 Oct 2023 → 27 Oct 2023

La derivada fractal, algunos resultados
Vivas Cortez, M. J. (Speaker)
21 Sep 2023 → 24 Sep 2023

Sobre la derivada Fractal, algunos resultados recientes"
Vivas Cortez, M. J. (Speaker)
5 Jul 2023 → 9 Jul 2023

Algunos resultados sobre una nueva derivada fractal
Vivas Cortez, M. J. (Speaker)
11 May 2023 → 12 May 2023

¿Las matemáticas recientemente creadas son pertinentes para ser introducidas en el reciente curriculum educativo?
Vivas Cortez, M. J. (Speaker)
16 Feb 2023 → 18 Feb 2023

NEW RESULTS ON THE FRACTAL DERIVATIVE AND PERSPECTIVES
Vivas Cortez, M. J. (Speaker)
26 Oct 2022 → 28 Oct 2022

SEXTA CONVENCIÓN CIENTÍFICA INTERNACIONAL DE LA UTM
Vivas Cortez, M. J. (Assistant)
20 Oct 2022

Funciones Convexas Generalizadas
Vivas Cortez, M. J. (Speaker)
18 Oct 2022 → 21 Oct 2022

ACTITUD DE LOS ESTUDIANTES FRENTE AL USO DE TECNOLOGÍAS EDUCATIVAS PARA EL APRENDIZAJE DE LA MATEMÁTICA: UNA EXPERIENCIA DESDE LOS ESTUDIANTES DE ECONOMÍA DE PONTIFICIA UNIVERSIDAD CATÓLICA DEL ECUADOR
Vivas Cortez, M. J. (Speaker)
8 Jul 2022

Conferencia del Grupo de trabajo "Discusión y Resolución de Problemas"
Vivas Cortez, M. J. (Speaker)
12 May 2022 → 13 May 2022

Convexidad Generalizada, Ideas Históricas y problemas abiertos
Vivas Cortez, M. J. (Speaker)
2016

Projects

ALGUNAS DESIGUALDADES DE FUNCIONES CONVEXAS GENERALIZADAS
Vivas Cortez, M. J. (Director)
3/04/18 → 14/02/20

ALGUNAS DESIGUALDADES INTEGRALES PARA FUNCIONES CONVEXAS GENERALIZADAS Y APLICACIONES
RANGEL OLIVEROS, Y. C. (Principal Investigator) & Vivas Cortez, M. J. (Director)
1/03/20 → 2/03/22

ALGUNAS GENERALIZACIONES DE DESIGUALDADES INTEGRALES
Vivas Cortez, M. J. (Principal Investigator) & RANGEL OLIVEROS, Y. C. (Director)
17/02/20 → 31/07/22

Contemporary Theoretical Challenges and Practical Advances in Fractional and Generalized Calculus
Vivas Cortez, M. J. (Director), Guerrero, J. A. (External Researcher), Juan E., N. V. (External Researcher) & Velasco Velasco, J. (Principal Investigator)
30/07/25 → 1/08/27

DESAFÍOS TEÓRICOS CONTEMPORÁNEOS Y AVANCES PRÁCTICOS EN CÁLCULO FRACCIONAL Y GENERALIZADO.
Vivas Cortez, M. J. (Director)
1/07/26 → 31/03/27

FUNCIONES CONVEXAS GENERALIZADAS EN PROCESOS ESTOCÁSTICOS Y OTRAS DESIGUALDADES CLÁSICAS
Vivas Cortez, M. J. (Director)
3/04/18 → 14/02/20

LA DERIVADA FRACCIONAL GENERALIZADA, NUEVOS RESULTADOS Y APLICACIONES EN DESIGUALDADES INTEGRALES
Vivas Cortez, M. J. (Director), Jaramillo Villagómez, J. E. (Principal Investigator), VELASCO VELASCO, J. (External Researcher), Thabet, S. T. M. (External Researcher) & BRAVO QUEZADA, W. G. (Principal Investigator)
10/08/24 → 11/08/26

RESULTADOS CUALITATIVOS DE ECUACIONES DIFERENCIALES FRACCIONARIAS LOCALES Y DESIGUALDADES INTEGRALES
Delgado Noboa, A. C. (Principal Investigator), RANGEL OLIVEROS, Y. C. (Principal Investigator), NÁPOLES VALDÉS, J. (External Researcher), VELASCO VELASCO, J. (External Researcher) & Vivas Cortez, M. J. (Director)
15/03/22 → 16/03/24