

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Ζαχαρούλα Καλογηράτου

Η Ζαχαρούλα Καλογηράτου είναι πτυχιούχος του Τμήματος Μαθηματικών (1987) του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών και κάτοχος μεταπτυχιακού διπλώματος ειδίκευσης στην Αριθμητική Ανάλυση και τους Υπολογισμούς (1989) του Τμήματος Μαθηματικών (συνδιοργάνωση με το Τμήμα Επιστήμης Υπολογιστών) του Πανεπιστημίου του Manchester. Είναι κάτοχος Διδακτορικού Διπλώματος στην Αριθμητική Ανάλυση (1992) του Τμήματος Μαθηματικών του Πανεπιστημίου του Manchester. Είναι καθηγήτρια στο Τμήμα Πληροφορικής της Σχολής Θετικών Επιστημών του Πανεπιστημίου Δυτικής Μακεδονίας.

Τα ερευνητικά της ενδιαφέροντα είναι στην περιοχή της αριθμητικής ανάλυσης και συγκεκριμένα της αριθμητικής ολοκλήρωσης διαφορικών εξισώσεων. Έχει δημοσιεύσει 37 άρθρα σε διεθνή επιστημονικά περιοδικά, 50 άρθρα σε Πρακτικά Διεθνών Συνεδρίων και έχει περισσότερες από 2000 ετεροαναφορές στο επιστημονικό της έργο (h-index 24).

Διδακτική Εμπειρία

2019-σήμερα: Σχολή Θετικών Επιστημών, Πανεπιστήμιο Δυτικής Μακεδονίας, Τμήμα Πληροφορικής, μαθήματα: Αριθμητική Ανάλυση I, Μαθηματική Ανάλυση II.

Τμήμα Μαθηματικών, μαθήματα: Εισαγωγή στους Αλγόριθμους και τον Προγραμματισμό, Εισαγωγή στην Αριθμητική Ανάλυση, Συνήθεις Διαφορικές Εξισώσεις, Αριθμητική Επίλυση Διαφορικών Εξισώσεων.

2019-σήμερα: Διδασκαλία στο ΜΠΣ «Προηγμένες Τεχνολογίες Πληροφορικής και Υπηρεσίες» που διοργανώνεται από το Τμήμα Πληροφορικής του Πανεπιστημίου Δυτικής Μακεδονίας σε συνεργασία με το Τμήμα Πληροφορικής του Πανεπιστημίου Πειραιά, μέρος του μαθήματος «Υπολογιστικές Μέθοδοι». Επίβλεψη πολλών διπλωματικών εργασιών.

2004-2019: Τμήμα Πληροφορικής και Τεχνολογίας Υπολογιστών, ΤΕΙ Δυτικής Μακεδονίας (Καστοριά).

1997-2004: Τμήμα Διεθνούς Εμπορίου, ΤΕΙ Δυτικής Μακεδονίας (Καστοριά).

2008-2012: Μέλος ΣΕΠ του Ελληνικού Ανοιχτού Πανεπιστημίου, Μαθηματικά για Πληροφορική του προγράμματος σπουδών Πληροφορικής.

2000-2002: Τμήμα Μηχανικών διαχείρισης Ενεργειακών Πόρων, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης διδάσκουσα με βάση το ΠΔ 407. Μαθηματικά I και II.

1993-1997: ωρομίσθια καθηγήτρια μαθηματικών στη Σχολή Ικάρων.

1989-1992: βοηθός διδασκαλίας σε εργαστηριακά μαθήματα University of Manchester.

Ερευνητική Δραστηριότητα

Μέλος της συντακτικής επιτροπής (Editorial Board) των περιοδικών:

- ✓ *Applied Mathematics and Computation* (Elsevier Publications)
- ✓ *Journal of Computational Mathematics and Data Science* (Elsevier Publications)
- ✓ *Numerical Analysis and Applicable Mathematics* (Ariviyal Publishing)

Κριτής σε περιοδικά

- ✓ *Computers and Mathematics with Applications* (Elsevier)
- ✓ *Journal of Computational and Applied Mathematics* (Elsevier)
- ✓ *Computer Physics Communications* (Elsevier)
- ✓ *Mediterranean Journal of Mathematics* (Springer)
- ✓ *Journal of Mathematical Chemistry* (Springer)
- ✓ *International Journal of Mathematics and Mathematical Sciences* (Hindawi)
- ✓ *Journal of Applied Mathematics*, (Hindawi)
- ✓ *Abstract and Applied Analysis*, (Hindawi)
- ✓ *Mathematical Methods in the Applied Sciences* (Wiley)

Κριτής σε Συνέδρια

International Conference on Numerical Analysis and Applied Mathematics από το 2009.

International Conference of Computational Methods in Sciences and Engineering από το 2009.

International Conference on Applied Economics από το 2008.

Συμβουλευτικές και Εξεταστικές Επιτροπές Διδακτορικών Διατριβών

Μέλος της τριμελούς συμβουλευτικής επιτροπής ενός υποψήφιου διδάκτορα και μέλος της επταμελούς εξεταστικής επιτροπής τριών υποψήφιων διδακτόρων.

Δημοσιεύσεις σε Διεθνή Επιστημονικά Περιοδικά

1. J. Williams, Z. Kalogiratou, Best Chebyshev approximation from families of ordinary differential equations, *IMA Journal Numerical Analysis*, 13 (1993) 383-395.
2. J. Williams, Z. Kalogiratou, Nonlinear Chebyshev fitting from the solution of ordinary differential equations, *Numerical Algorithms*, 5 (1993) 325-337.
3. J. Williams, Z. Kalogiratou, Least squares and Chebyshev fitting for parameter estimation in ODEs, *Advances in Computational Mathematics*, 1(1993) 357-366.
4. Z. Kalogiratou, T.E. Simos, A P-stable Exponentially-Fitted Method for the Numerical Integration of the Schrödinger Equation, *Applied Mathematics and Computation*, 112 (2000) 99-112.
5. Z. Kalogiratou, T.E. Simos, Construction of trigonometrically and exponentially-fitted Runge-Kutta-Nyström methods – a method of 8th algebraic order, *Journal of Mathematical Chemistry*, 31 (2002) 211-232.
6. Z. Kalogiratou, T.E. Simos, Newton-Cotes Formulae for Long Time Integration, *Journal of Computational and Applied Mathematics*, 158 (2003).
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25. Z. Kalogiratou, Th. Monovasilis, and T. E. Simos, Diagonally Implicit Symplectic Runge-Kutta Methods with Special Properties (2013) AIP Conference Proceedings 1479, 1387-1390.
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31. Z. Kalogiratou, Th. Monovasilis, Higinio Ramos and T.E. Simos, Trigonometrically Fitted Two Step Hybrid Methods for the Numerical Solution of the Schrödinger Equation (2015) AIP Conference Proceedings 1648, 810008.
32. Higinio Ramos, Z. Kalogiratou, Th. Monovasilis and T.E. Simos, An Optimized Two-step Hybrid Block Method for Solving General Second Order Initial-value Problems of the form $y'' = f(x, y, y')$ (2015) AIP Conference Proceedings 1648, 810006.
33. Th. Monovasilis, Z. Kalogiratou, Higinio Ramos and T.E. Simos, A New Approach on the Construction of Trigonometrically Fitted Two Step Hybrid methods (2015) AIP Conference Proceedings 1648, 810009.
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35. Z. Kalogiratou, Th. Monovasilis, T.E. Simos, Two step hybrid methods of 7th and 8th order for the numerical integration of second order IVPs (2016) AIP Conference Proceedings 1738, 480132.
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