

Curriculum Vitae

Name	Hanen Yousef Louati
Department	Assistant Professor, Mathematics, Northern Border University
Nationality	Tunis
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Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of issue	Address
01- 27- 2017	PhD in Mathematics a conjoint degree between University of Tunis El manar and University of Toulon, France.	University of Tunis and University of Toulon	University of Tunis El manar and University of Toulon, France.
21-07-2011	Master degree of Mathematics, University of Tunis.	University of Tunis	University of Tunis El manar
30-07-2004	Les bachelor's degree in Mathematics at Faculty of Sciences of Tunis.	University of Tunis	University of Tunis El manar

PhD, Master or Fellowship Research Title

PhD	Semi-classical quantization rules for a periodic orbit of hyperbolic type
Master	Pseudo-spectrum of the complex harmonic oscillator. Case study $P = 1/3$

Professional Record (Beginning with the most recent)

Job Rank	Place And Address of work	Date
Assistant Professor	Northern Border University, Department of Mathematics, Arar	2017-2025
Assistant Professor	Department of Mathematics, University of Tunis	2011- 2016

Scientific Achievements (Published Refereed Scientific Research)

Publisher and Date of Application	Research Title	Name of Investigators
Int. J. Anal. Appl., 20 (2021), 7. DOI:https://doi.org/10.28924/2291-8639-20-2022-7	Differential Equations Models and Their Applications in Metallurgy	Ridha Selmi, Muflih Alhazmi, Abir Sboui, Hanen Louati, Amel Touati, Hechmi Hattab.
Proceedings of the International Conference DAYS on DIFFRACTION 2021, pp. 1-7	On semi-classical spectral series for an atom in a periodic polarized electric field	Louati Hanen, Michel Rouleux, Abdelwaheb IFA.
Journal of Mathematical Sciences, the University of Tokyo 2018	Bohr-Sommerfeld quantization rules revisited: The method of positive commutators.	Louati Hanen, Michel Rouleux, Abdelwaheb IFA.
Proceedings of the International Conference DAYS on DIFFRACTION, 2016 IEEE	Semi-classical quantization rules for a periodic orbit of hyperbolic type	Louati Hanen, Michel Rouleux.

Proceedings of the International Conference DAYS on DIFFRACTION 2013 IEEE	Hyperbolic Hamiltonian flows and the semi-classical Poincare map	Louati Hanen, Michel Rouleux Hafedh Fadhlou.
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Name of Investigators	Research Title	The magazine
Adeel Ahmad 1, Hanen Louati 2, Akhter Rasheed 3, Asad Ali 1,*, Saqib Hussain 3,*, Shreefa O. Hilali 4 and A.Y.Al-Rezami 5	Applications of q-Integral Operator to a Certain Class of Analytic Functions Associated with a Symmetric Domain	Symmetry
Alwaleed Kamel, Hanen Yossef Louati, Khaled Aldwoah*, Faez Alqarni, Mohammed Almalahi* and Manel Hleili	Stochastic analysis and soliton solutions of the Chaffee–Infante equation in nonlinear optical media	Boundary Value Problems Springer Open
Farwa Zaka · Ibrahim A. Nafisah · Jianyi Lin · Mohammed M. A. Almazah · Ijaz Hussain · Mansour Almazroui · Rabin Chakraborty6 · Hanen Louati	Real-time temperature nowcasting using deep learning models across multiple locations	Modeling Earth Systems and Environment
HANEN LOUATI , Al-REZAMI, A. Y ,*, ABDULBASIT A. DAREM5, and FUAD ALSARARI6	Defining and Analyzing New Classes associated with (λ, γ) -Symmetrical functions and Quantum Calculus	MDPI
HANEN LOUATI 1, Rohma Arooj 2, Azmat Ullah Khan Niazi 2,*, Mhassen. E. E. Dalam3, Mohammed M. A. Almazah3, Aseel Smerat 4,5	Finite-Time Fuzzy Control Strategy For Nonlinear MASs With Actuator Faults And Deception Attacks	AIMS Mathematics
Hanen Louati 1, Saadia Rehman 2, Farhat Imtiaz 2, Nafisa A. AlBasheir 3, Afrah Y. Al-Rezami 4, Mohammed	Securing Bipartite Nonlinear Fractional-Order Multi-Agent Systems against False Data Injection Attacks (FDIAs) Considering Hostile Environment	fractal and fractional

M. A. Almazah 5 and Azmat Ullah Khan Niazi 2,*		
Hanen Louati 1, Sajid Khan 2, Muavia Mansoor 3,* , Shreefa O. Hilali 4 and Ameni Gargouri 5	Analysis of Entropy Generation via Non-Similar Numerical Approach for Magnetohydrodynamics Casson Fluid Flow with Joule Heating	Entropy 2024, 26, x. https://doi.org/10.3390/xxxxx
Hanen Louati a, Azmat Ullah Khan Niazi b,*, Mhassen. E.E. Dalam c, Waqar Ul Hassan b, Khawer Hameed Khan b, Mohammed Alhagyan d	Optimizing control efficiency in discrete-time multi-agent systems via event-triggered containment techniques combining disturbance handling and input delay management	Heliyon journal homepage: www.cell.com/heliyon
Hanen Louati, Abdul Majeed, Imdad Ullahb, Shreefa . Hilalic, Mohammed M. A. Almazahd, Amir Alie,*	Investigation of Knot Bundles Based Normal and Anomalous Rotary Photon Drag in Duplicated two Level Atomic Medium	Springer Nature Link
Hanen Louati, Zahoor Shah, *, Muhammad Asif Zahoor Raja, Muhammad Talha, Mohammed M. A. Almazah5	Rectified Linear Unit-Based Deep Learning Model for Ferromagnetic Blood Flow under Magnetohydrodynamic and Radiation Effects	Journal of Radiation Research and Applied Sciences Journal of Radiation Research and Applied Sciences
Hanen Louati1, Amel Toiti1, Ridha Selmi1, Abdullah Aljohani1 and Manar Mithgal Alruwaili1	Mathematical study of attractors to a 3D heated fluid	Springer Nature Link
Hanen Louati1,2, Afrah Al-Rezami3,4,* , Erhan Deniz5, Abdulbasit Darem6 and Robert Szasz7	Application of q-starlike and q-convex functions under (u, v)-symmetrical constraints	AIMS Mathematics
Alwaleed Kamel, Hanen Yossef Louati, Khaled Aldwoah*, Faez Alqarni, Mohammed Almalahi* and Manel Hleili	Stochastic analysis and soliton solutions of the Chaffee–Infante equation in nonlinear optical media	Boundary Value Problems Springer Open
Farwa Zaka · Ibrahim A. Nafisah · Jianyi Lin · Mohammed M. A. Almazah · Ijaz Hussain · Mansour Almazroui · Rabin	Real-time temperature nowcasting using deep learning models across multiple locations	Modeling Earth Systems and Environment

Chakrabortty6 · Hanen Louati		
HANEN LOUATI , Al-REZAMI, A. Y ,*, ABDULBASIT A. DAREM5, and FUAD ALSARARI6	Defining and Analyzing New Classes associated with (λ, γ) -Symmetrical functions and Quantum Calculus	MDPI
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Hanen Louati 1, Sajid Khan 2, Muavia Mansoor 3,* , Shreefa O. Hilali 4 and Ameni Gargouri 5	Analysis of Entropy Generation via Non-Similar Numerical Approach for Magnetohydrodynamics Casson Fluid Flow with Joule Heating	Entropy 2024, 26, x. https://doi.org/10.3390
Hanen Louati a, Azmat Ullah Khan Niazi b,*, Mhassen. E.E. Dalam c, Waqar Ul Hassan b, Khawer Hameed Khan b, Mohammed Alhagyan d	Optimizing control efficiency in discrete-time multi-agent systems via event-triggered containment techniques combining disturbance handling and input delay management	Heliyon journal homepage: www.cell.com/heliyon

Scientific Achievements (Membership and Committees participating in)

1-	Quality Committee of the Department, Department of Mathematics, Arar.
2-	Public Relations and Media Committee, Department of Mathematics, Arar.
3-	Committee of Systems and Study Plans, Department of Mathematics, Arar.

Teaching Activities (Undergraduate)

Course	Course Number
Partial Differential Equations Course, College of Science, Arar.	1104443
Differential Equations Course 1, College of Science, Arar	1104241
Differential Equations Course 2, College of Science, Arar	1104342
Calculus 1 Course, College of Science, Arar	1104201
Calculus 2 Course, College of Science, Arar	1104202
Mathematics for the Life Sciences	1104102

Specialized Training Courses and Workshops

Title of training course / Workshop	Place	Date
Roadmap for preparing for the program accreditation visit	The Unit for Development, Quality, and Academic Accreditation at the College of Science	06-02-2023
KNIME, Data Analysis and Reporting Platform	Northern Border University	03-07-1444
Web of Science, its components, databases and journals with impact factor IF.	Northern Border University	24-10-1443
Scientific references and their electronic indexing in scientific papers using Mendeley programming.	Northern Border University	17-10-1443

Scientific research ethics.	Northern Border University	19-9-1443
Fundamentals of the International Classification of Refereed Scientific Journals.	Northern Border University	12-9-1443
Design and development of academic programs and courses, policies and procedures	Deanship of University Education Development	21-02-2022 (10 hours)
Selection of publishing vessels for scientific promotion	Deanship of University Education Development	08-03-2022
Using modern teaching strategies	Northern Border University/ Deanship of University Educational Development, KSA	03/03/2022
Designing and measuring the program learning outcomes in accordance with the Saudi qualification framework	Northern Border University/ and the Deanship of Quality and Accreditation, KSA	29/10/2019- 01/11/2019
Key performance indicator, benchmarking and elaborating an institutional self-study report	Northern Border University/ Deanship of Quality and Accreditation, KSA	19-22/11/2019
Writing and designing the program/ the course / the field trainings' specifications and reports	Northern Border University/ Deanship of Quality and Accreditation, KSA	04-08/02/2019
Four intensive sessions about using Blackboard LMS in teaching	Northern Border University/ Deanship of E-learning and Distance Education, KSA	30/10-06/11- 27/11/2018 and 03/02/2019
Using brain research in teaching and learning at universities	Northern Border University / Deanship of University Educational Development, KSA	25-26/10/2018
Characteristics of Graduates of Academic Programs (Design-Measurement)	Northern Border University	18-03-2021
Formulating and measuring the learning outcomes of academic programs	Northern Border University	22-05-2022
Assessing students learning	Northern Border University	11-10-2017
Academic advising training course	Northern Border University	06-03-1440 (5 hours)
A training course on "preparing new faculty members"	Northern Border University	02-02-1439 to 05-02-1439

Community Service (Volunteer Work)

Title		Position	Date
Breast Cancer Campaign	Team, we make them happy volunteering Northern Borders		26-11-2022 to 27-11-2022
International Children's Day	Team, we make them happy volunteering Northern Borders Media Association		26-11-2022 to 27-11-2022
Volunteer Specialist	Team, we make them happy volunteering Northern Borders		01-03-2022 to 20-03-2022
Volunteer manager	Team, we make them happy volunteering Northern Borders		01-03-2022 to 26-03-2022

Language proficiency

Language	Read	Write	Speak
Arabic	Good	Good	Good
English	Good	Good	Good
French	Good	Good	Good

Computer Skills: Windows, Office, Word, Excel, Power Point, Visual Basic, and Internet.