

Academic Curriculum Vitae



Personal Information:

Full Name: Ibrahim Othman Hamad
Academic Title: Assistant Professor
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Education:

- University of Salahaddin-Erbil Ph.D. 2004-2007
- University of Salahaddin-Erbil M.Sc. 1998-2000
- University of Salahaddin-Erbil B.Sc. 1988-1992

Employment:

- Assistant Researcher in Mathematics Department, College of Science, Salahaddin University-Erbil 1993 – 1998.
- M.Sc. Student 1998 – 2000.
- Assistant Lecturer 2000 – 2005.
- PhD student 2004 – 2007.
- Lecturer 2005 – 2009.
- Assistant (Associate) Professor 2009 – Present.

Qualifications

- Teaching Methods Salahaddin University-Erbil, March 2001
- Excel (V. good), Mathcad(little), Maple (good), LaTeX (V. good), VB Office (V. good)

Teaching experience:

- 1993-1998, as an Assistant Researcher: (Theoretical): O.D.E, probability, & Statistics, Euclidean and Non-Euclidean Geometry. (Tutorial): Euclidean and Non Euclidean Geometry y, Statistics, O.D.E, P.D.E, Topology. (Computer Laboratory): Basic Language, Fortran Language, Pascal Language

- 2000-2004, as an Assistant Lecturer: (Theoretical): Mathematical Analysis, Finite Mathematics ,O.D.E, probability, & Statistics, Euclidean and Non Euclidean Geometry, Pascal Language, Computer Science, Supervising of several fourth year students Graduation Projects, Axiomatic Systems.

- 2005 - Present, as Lecturer and Assistant Professor: (Theoretical):

(Undergraduate): Math. Analysis, Calculus, Advanced Calculus, Axiomatic Systems, Operation Research, Operating Systems, System Analysis, Fundamental of mathematics., Basic Mathematics for Computer Sci, Axiomatic Systems, Modern Geometry

(Graduate): Adv. Mathematical Analysis, Adv. Mathematical Analysis-Theory of Integration, Adv. Mathematical Analysis- Advanced topics in Metric Spaces, Nonstandard Analysis and Asymptotic Approximations, Asymptotic Analysis, Nonstandard Analysis, Measure Theory

Research and publications

- Jumha, Sebar H.; Hamad, Ibrahim O.; and Hassan, Ala O. (2024) Cantor Set from a Nonstandard Viewpoint. *Polytechnic Journal*: Vol. 14: Iss. 1, Article 12. DOI: <https://doi.org/10.59341/2707-7799.1830>
- Chiman Qadir, Hamad, I., & Aziz, W. (2024). Existence Canard Solutions For Four Dimensional Hindmarsh-Rose Model with Respect to Infinitesimal Parameter. *Zanco Journal of Pure and Applied Sciences*, 36(2), 96–106. DOI: <https://doi.org/10.21271/ZJPAS.36.2.9>
- Qadir C., Aziz W., Hamad I. (2023) Rank Two Integral Aspects of Three Dimensional Lotka–Volterra Equations with Nonstandard Analysis. *Differential Equations and Dynamical Systems*. DOI: <https://doi.org/10.1007/s12591-023-00664-9>
- Chiman Qadir, Waleed Aziz, Ibrahim Hamad. (2023) Non–Existence of Polynomial First Integrals of a Family of Three-Dimensional Differential Systems. *Palestine Journal of Mathematics*, Vol. 12(1), 59–72. DOI: <https://pjm.ppu.edu/vol/1339>
- Mardan A. Pirdawood, Ibrahim O. Hamad. (2022). Some Nonstandard Treatment of Singularity in Differential Equations. *Passer Journal of Basic and Applied Sciences*, 10 (2), Passer Journal of Basic and Applied Sciences. DOI: <https://doi.org/10.24271/psr.2022.161691>
- Ala, Hassan, I. (2021). Nonstandard Completion of Non-complete Metric Spaces. *Zanco Journal of Pure and Applied Sciences*, 33(4), 129–135. DOI: <http://dx.doi.org/10.21271/ZJPAS.33.4.13>
- Hamad, I. O.. On Infinitesimal ω -Smooth Functions, ZANCO Journal of Pure and Applied Sciences, (ZJPAS), 32 (5); (2021) 1-16, DOI: <http://dx.doi.org/10.21271/ZJPAS.32.0.0>
- Mardan A. Pirdawood, Ibrahim O. Hamad (2020). Nonstandard Solutions for Ordinary Differential Equations near Singularity. 3rd International Conference on Recent Trends in

Multi-Disciplinary Research (ICRTMDR-20), 26th - 27th December 2020., (Maldives), online, <https://icrtmdr.com>

- Mardan A. Pirdawood, Ibraihm O. Hamad (2018). Existence and Uniqueness Theorems for Infinitesimal Micromonad of an Initial Standard Point and Legendre Equation, Special issue of International Conference on Pure and Applied Sciences (ICPAS 2018), pp114-119 Koya Univ., (Kurdistan region, Iraq).

DOI: <http://dx.doi.org/10.14500/icpas2018.pma66>

- Hussein S., Hamad, I. (2017). Nonstandard Version of Intermediate Value Property. *Scientific Journal of Univ. of Zakho*, 5(1), 142–146. DOI: <https://doi.org/10.25271/2017.5.1.356>
- Hamad, I. (2016). On Some Nonstandard Development of Intermediate Value Property, *Assiut Univ. J. of Mathematics and Computer Science*, 45(2), 35-45 DOI: [10.21608/AUNJ.2016.221419](https://doi.org/10.21608/AUNJ.2016.221419)
- Hussein S., Hamad, I. (2016). ρ -theta-Topological Group in Nonstandard Analysis. *Assiut Univ. J. of Mathematics and Computer Science*, 45(2), (2016) 11-22 DOI: [10.21608/AUNJ.2016.221410](https://doi.org/10.21608/AUNJ.2016.221410)
- Jumha S., Hamad, I. (2016). On Some New Type of Functions in Nonstandard. *Scientific Journal of University of Zakho* 4(2), 253-257

DOI: <https://sjuoz.uoz.edu.krd/index.php/sjuoz/article/view/358>

- Abdul-Rahman B., Hamad, I. (2016). Nonstandard Asymptotic Treatments for Some Critical Engineering Parameters Depending on Bessel Functions. *ANDAMIOS*, 13(2), (Mexico) UNIV AUTONOMA CIUDAD MEXICO
- Abdul-Rahman B., Hamad, I. (2016) Some Nonstandard Type of the Remainder of Bessel Function. *Zanco Journal of Pure and Applied Sciences*, 28(4), 142–155.
- Abdul-Rahman B., Hamad, I. (2014). On Nonstandard Type of Integral Representation of Bessel Function. *International Journal of Enhanced Research in Science Technology & Engineering*, 3(4), 347–355. DOI: <https://www.erpublications.com/our-journals-dtl-pdf.php?pid=1&id=82&pagesize=10&start=40&pagesize=10>
- Hussein S., Hamad, I. Ismail T. (2012). On A New Type of Monads in Topology. *Journal of Theoretical Mathematics and Applications* 2(3), 139-150.

DOI: https://www.sciencpress.com/journal_focus.asp?main_id=60&Sub_id=IV&Issue=450

- Hussein S., Hamad, I. Ismail T. (2012). $P\theta$ -Topological Groups in Nonstandard Analysis, (with Tahir H. Ismail & Sami A. Hussein), *Raf. J. of Comp. & Math's*, 9(1), 191–199. DOI: [10.33899/CSMJ.2012.163683](https://doi.org/10.33899/CSMJ.2012.163683)
- Hussein S., Hamad, I. Ismail T. (2012). $\beta\theta$ - Monads in General Topology. *Int. J. of Contemporary Mathematical Science*, 7(5), 241-249

DOI: <http://www.m-hikari.com/ijcms/ijcms-2012/5-8-2012/index.htm>.

- Hussein S., Hamad, I. Ismail T. (2009). A Generalized Curvature of Generalized Envelopes. *Raf. J. of Comp. & Math's*, 6(2), 39-47.

DOI: [10.33899/csmj.2009.163795](https://doi.org/10.33899/csmj.2009.163795)

- Hamad, I. (2008). Continuity as a Galaxy of Hyperreal Functions. *Raf. J. of Comp. & Math's*, 5(2), 85-93.
DOI: https://csmj.mosuljournals.com/article_163974
- Hamad, I. Ismail T. (2008). A Nonstandard Generalization of Envelops. *Raf. J. of Comp. & Math's*, 5(2), 73-83.
DOI: https://csmj.mosuljournals.com/article_16397.html
- Hamad, I. (2008). Nonstandard Treatment of Two Dimensional Taylor Series with Reminder Formulas, *Raf. J. of Comp. & Math's*, 5(1), 165-175.
DOI: https://csmj.mosuljournals.com/article_163957.html
- Hamad, I. Ismail T. (2008). Reformulation of the Generalized Curvature by Using Decomposing Technique. *J. of Edu. Sci.*, 21(1), 45-60.
DOI: https://edusj.mosuljournals.com/article_51295.html
- Hamad, I. Ismail T. (2007). Three Near Points Method for Calculating Generalized Curvature and Torsion. *J. Edu. Sci.*, 19(4), 122-131.
DOI: [10.33899/EDUSJ.2007.74136](https://doi.org/10.33899/EDUSJ.2007.74136)
- Hamad, I. Ismail T. (2006). On The Generalized Curvature. *Raf. J. of Comp. & Math's*, 3(2), 83-98.
DOI: https://csmj.mosuljournals.com/article_164054.html
- Hamad, I. Ismail T. (2006). On The Generalized Torsion. *J. Dohuk Univ.*, 9(2), 116-122
- Hamad, I. Ismail T. (2006). The Curvature of Envelope of a Family of Straight Lines in a Plane (with Tahir H. Ismail) International Congress "NS Methods and Appl. in Mathematics- NSM" 25-31/5/ 2006, Pisa, Italy. <https://people.dm.unipi.it/nsm2006/>, <https://people.dm.unipi.it/nsm2006/abstracts.html>
- Hamad, I. (2005). Some Nonstandard Results of Continuous, Monotonic Fun., *J. Edu. Sci.*, 17(2), 80-86.
DOI: [10.33899/EDUSJ.2005.81311](https://doi.org/10.33899/EDUSJ.2005.81311)
- Hamad, Haji R., I. Ismail T. (2005). On Some Nonstandard Asymptotic Approximation of Integrals and Series. *Raf. J. of Comp. & Math's*, 2(2), 33-40.
DOI: [10.33899/CSMJ.2005.164081](https://doi.org/10.33899/CSMJ.2005.164081)
- Hamad, I. Haji R. (2004). The Problem of Optimal Accuracy. *Zanco Jour. of Pure and Applied Science* 16(5), 65-69
- Hamad, I. (2004). A new Type of Infinitesimal in Nonstandard Analysis, *Zanco Jour. of Pure and Applied Science* 16(1), 67-71
- Hamad, I. Ismail T. (2005). A Nonstandard Approximation Using Taylor Polynomials. *Raf. J. of Comp. & Math's*, 12(21), 86-93

Conferences and courses attended

- CIMPA-UNESCO-IPM School, Repres. Theory of Algebras, 15-25-6/, 2008. Tehran, Iran.

- Research School CIMPA UNESCO – EGYPT, Recent Development in the Theory of Elliptic Partial Differential Equations 25/1-3/2/2009. Alexandria, Egypt.
- CIMPA-KURDISTAN-IRAQ research school, Inverse problems: Theory and applications, University of Salahaddin-Erbil, Kurdistan-Iraq, May 5-14, 2014, <http://www.cimpa-icpam.org/spip.php?article564>.
- International Congress "Nonstandard Methods and Applications in Mathematics- NSM" 25-31/5/ 2006, Pisa,Italy. <https://people.dm.unipi.it/nsm2006/>.
- The Second Conference on Math. Sciences (CMS'2008) 22-23/10/2008. Jordan, Zarqa.
- The Second International Conference of Mathematics 26-30/10/2008. Syria, Aleppo.
- First Iraq-French Mathematics Conference, Cooperation with College of Science 14-18/11/2009. Hawler (Erbil) - Kurdistan Region, Iraq.
- The National Conference on Pure and Applied Mathematics and Mathematical Education, Ishik University (NCPAME2018) 11-12/02/2018. Erbil, Kurdistan Region, <http://www.ishik.edu.iq/conf/ncpame/>.
- 3rd International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR-20), 26th - 27th December 2020., (Maldives), online, <https://icrtmdr.com/>.
- Celebrating Claude Levesque's, Damien Roy's and Michel Waldschmidt's birthdays Joint with the sixth mini symposium of the Roman Number Theory Association May 16-21, 2022, Marina di San Gregorio, Patù (Lecce), Italy, <http://www.rnta.eu/CLDRMW210/>, <http://www.rnta.eu/CLDRMW210/participants.html>
- 3rd International Conference of Mathematics and its Applications (TICMA2022), Univ. of Salahaddin-Erbil,Kurdistan-Iraq,29-31/08/2022, <https://conferences.su.edu.krd/su/ticma2022/>
- 9th Scientific Conference of University of Garmian: Pure Sciences and Technology and Technology Applications (SCUG-PSTA-2022), Oct. 26, 2022, College of Education/ University of Garmian/ Kurdistan region, Iraq, <https://psta.garmian.edu.krd/home>
- An International, Introducing Mendeley Reference Manager Designed Today's Research Workflow, Nov. 9, 2023, College of Science/ Univ. of Salahaddin-Erbil/ Kurdistan region, Iraq.
- International Advisory organizer committee member of 4th International Conference on Engineering, Social-Sciences and Humanities (ICESSU-2024), Virtual online Participant, University of Mindanao TAGUM College, Philippines, 19,20.04.2024, [International Engineering Conference | Social Science and Humanities Conferences 2024 - ICESSU](https://www.icessu.org/)
- International Conference on Advances in Computer Engineering, Communication Systems and Business Development (ICACECSBD-2024), Organized by IFERP, 26-27, May 2024, Maniar College of Computer and Management, Nagpur, India, Virtual online Conference. <https://www.icacecsbd.org/>

Funding and academic awards

Professional memberships











- 1993 – Present : Member of the Kurdistan Region and Iraq Mathematics Society.

- 2020 – Present : Member of the Kurdish Mathematics Society.
- 2000 – Present : Member of the Committee of Students Guidance,
- 2000 – Present : Member of most Committees in the College of Science,
- 2002 – Present : Scientific & Postgraduate Committee of the Mathematics Department,
- 2020 – Present: Professional Membership of The Institute for Engineering Research and Publication (IFERP), <https://dashboard.iferpmembership.in/index.php>
- 2000 – 2004: Member of College Central Examinations Committee,
- 2002 – 2004: Department'st Seminar & Training Committee,
- 2007 – 2008 : External Scientific Evaluator of Some M.Sc. Thesis,
- 2007 – 2012: Coordinator of the Scientific Committee of the Dept. of Mathematics.
- 2008 – 2011: Chairman of the College Final Exam. Comm. of Post Graduate,
- 2010 – 2011: Postgraduate & Scientific Affairs Assistant of the Dean of the College and Member of College Council,
- 2010 Examiner and Member of Comprehensive Examination Committee of Ph.D. Students in both College of Science and Edu. at University of Salahaddin,
- 2011 External Scientific Evaluator of Mathematics Department for Soran University,
- 2011 – 2013: Member of the College Scientific Promotion committee.
- 2014 Organizer member of CIMPA-KURDISTAN-IRAQ research school, Inverse problems: Theory and applications, University of Salahaddin-Erbil, Kurdistan-Iraq, May 5-14, 2014, <http://www.cimpa-icpam.org/spip.php?article564>
- 2014 – 2020: Editorial Board member of International Journal of Enhanced Research In Science Technology & Engineering (IJERSTE) indexed in Thomson Reuters databases,
- 2015 Reviewer of the journal General Mathematics Notes, Jordan ISSN 2219-7184
- 2016 Reviewer of the journal Annals of Fuzzy Mathematics and Informatics, Korea ISSN: 2093-9310
- 2018 Scientific Committee member and Session Chair of the National Conference on Pure and Applied Mathematics and Mathematical Education (NCPAME2018) Ishik University 11-12/02/2018. Erbil, Kurdistan Region,, <http://www.ishik.edu.iq/conf/ncpame/>
- 2020 International Advisory Board and Organizer member of “3rd International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR-20), organized by Institute for Engineering Research and Publication(IFERP), 26th and 27th December 2020, Maldives, [International Conference 2020 | Recent Trends in Multi-Disciplinary Research - IFERP 2020 \(icrtmdr.com\)](http://www.iferp.in/), [International Advisory Committee - ICRTMDR Maldives Conference 2020](http://www.iferp.in/)
- 2020 – Present: Professional Member of Institute for Engineering Research and Publication (IFERP), <https://iferp.in/>.
- 2020 – Present: Mathematics Stack Exchange network, [User Ibrahim Othman Hamad - Mathematics Stack Exchange](https://math.stackexchange.com/)
- 2021 International Advisory Board and Organizer member of “4rd International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR-21), organized by Institute for

Engineering Research and Publication(IFERP), 23th and 24th December 2021, Maldives,
<https://icrtmdr.com/past-conference-report.php>

- 2022 Scientific Committee member and Session Chair of the Third Int. Conference of Mathematics and its Applications (TICMA2022), University of Salahaddin-Erbil, Kurdistan-Iraq, 29-31/08/2022, <https://conferences.su.edu.krd/su/ticma2022/>
- 2023 Organizer committee member of International Conference on Advances in Computer Engineering, Communication Systems and Business Development (ICACECSBD-2023)"- VIRTUAL CONFERENCE on 26th & 27th May, 2023, <https://www.icacecsbd.org/Organizing-committee.php>
- 2024 International Advisory organizer committee member of 4th International Conference on Engineering, Social-Sciences and Humanities (ICESSU-2024) University of Mindanao TAGUM College, Philippines, 19,20.04.2024, [International Engineering Conference | Social Science and Humanities Conferences 2024 - ICESSU](#)

Professional Social Network Accounts:

-  Academic. Site : <https://academics.su.edu.krd/ibrahim.hamad>
-  ORCID ID : <https://orcid.org/0000-0002-3994-1866>
-  Google Scholar : <https://scholar.google.com/citations?hl=en&user=WPB4LloAAAAJ>
-  Research Gate : https://www.researchgate.net/profile/Ibrahim_Othman_Hamad
-  LinkedIn : <https://www.linkedin.com/in/ibrahim-hamad-2b019895/>
-  Google+ : <https://currents.google.com/101246595491615166391>
-  Acadimia : <https://independent.academia.edu/iiothmanhamad>
-  Arab Faculty St: <https://arabscientists.azurewebsites.net/Profile/Index/Ibrahim>
-  Scopus : <https://www.scopus.com/dashboard.uri?origin=&zone=TopNavBar>
-  Facebook : <https://www.facebook.com/ibrahim.othmanhamad>