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**Assist. Prof. Dr. Maha Abduljabbar Mohammed**

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| General Information |
| 1 | Name | Maha Abduljabbar Mohammed |
| 2 | Gender | Female |
| 3 | Date of Birth | 26/12/1978 |
| 4 | Nationality | Iraqi |
| 5 | Date of first appointment | 10/3/2003 |
| 6 | General Specialization | Mathematics |
| 7 | career | Lecturer in Department of Mathematics, College of Education for Pure Science / Ibn AL-Haitham, University of Baghdad, 47146, Baghdad, Iraq |
| 8 | Specialization | Applied Mathematics / Ordinary Differential Equations/Numerical Simulation |
| 9 | Highest certificate obtained | Doctor of Philosophy |
| 10 | Date of the highest certificate obtained | 30/07/2018 |
| 11 | State of donor highest certificate | Iraqi |
| 12 | University donor to the highest certificate | University of Malaya |
| 13 | Faculty donor to the highest certificate | Faculty of Science |
| 14 | The last scientific title got it | Assistant Professor |
| 16 | The last date of a scientific title got it | 18/03/2013 |
| 17 | Email | mahasssa@yahoo.commaha.aj.m@ihcoedu.uobaghdad.edu.iq |
| 18 | Number of published research | 26 |
| 19 | Notes | Lecturer 18 years; 2 years (Applied Mathematics), 14 years (Probability Theory), 1 year (Computer Programing), 1 year (Numerical Analysis) and in current year: Probability Theory.2 Years MSC Study (2000-2002) + 4 YEARS PhD Study (2013-2017).Participation in the SKSM22 conference in Malaysia on 24/11/2014 |
| 20 | Google Scholar linkh-index=7 | <https://scholar.google.com/citations?hl=en&user=xxBiLMIAAAAJ&view_op=list_works&sortby=pubdate> |
| 21 | Orcid link | 0000-0001-7209-2096[Maha A. Mohammed (0000-0001-7209-2096) (orcid.org)](https://orcid.org/0000-0001-7209-2096)https://orcid.org/0000-0001-7209-2096 |
| 22 | [Scopus](http://www.scopus.com/inward/authorDetails.url?authorID=57219464692&partnerID=MN8TOARS) linkh-index=4 |  [ID: 57219464692](http://www.scopus.com/inward/authorDetails.url?authorID=57219464692&partnerID=MN8TOARS)https://www.scopus.com/authid/detail.uri?authorId=57219464692 |
| 23 | University of Baghdad Digital Repository link | [University of Baghdad Digital Repository (uobaghdad.edu.iq)](https://repository.uobaghdad.edu.iq/author/maha.aj.m.ihcoedu)https://repository.uobaghdad.edu.iq/author/maha.aj.m.ihcoedu |
| 24 | Resear Chgate link | https://www.researchgate.net/profile/Maha-Mohammed-4 |
| 25 | Web of Science linkh-index=2 | [A.Mohammed, Maha - Web of Science Core Collection](https://www.webofscience.com/wos/author/record/AAB-9250-2019) |

Mathematical Department

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| **No.** | **Research Title** | **Details of Publication** | **Authors** | **Year** |
| 1 | Preliminary Test Bayesian –Shrunken estimators for the mean of normal distribution with known variance | Dyala journal, Vol.31,pp. 99-108. | Abbas Najim Salman, Maha A. Mohammed | 2008 |
| 2 | Stability of the finite difference methods of fractional partial differential equations using fourier series approach. | Dyala journal, Vol.32,pp. 129-138. | Maha A. Mohammed | 2008 |
| 3 | Solution of two dimensional fractional order volterra integro-differential equation | AL-Nahrain Journal for Science, Vol.12,4, pp. 185-189. | Maha A. Mohammed,Fadhel S. Fadhel | 2009 |
| 4 | On modified pr-test double stage shrinkage estimators for estimate the parameters of simple linear regression model | Ibn Al-Haithem Journal for Pure and Applied Sciences. Vol.24(1), pp. 212-233. | Abbas Najim Salman,Maha A. Mohammed | 2011 |
| 5 | On shrinkage estimation for Generalized Exponential Distribution | Journal of Economic and Administrative Science. Vol.(17),No.(64) , pp.2-7. | Abbas Najim Salman, AIaa Majed,and Maha A. Mohammed | 2011 |
| 6 | Double stage shrinkage estimators of two parameters Generalized Rayleigh Distribution. | Education College J./Al-Mustansyria, private No., Vol.(2), pp. 566-573. | Maha A. Mohammed | 2011 |
| 7 | On significance testimator in pareto distribution via shrinkage technique | Education college J./al-Mustansyria Unv. Vol.(1),No.(1)2012, pp. 95-103. | Abbas Najim Salman,Adel Abdul Kadhim Hussein,and Maha Abdul Jabbar Mohammad | 2012 |
| 8 | Double stage shrinkage estimator in Pareto distribution | Basic Education College J./ Al-Mustansiryia Unv. Vol.(18), No.(74), pp.23-34. | Maha A. Mohammed, Suha Taleb Abdul Rahman, and Abbas Najim Salman  | 2012 |
| 9 | On Jeffery Prior Distribution in Modified Double Stage Shrinkage-Bayesian Estimator for Exponential Mean. | Kufa of Mathematics & Computer J./Al-Kufa Univ. Vol.(1), No.(6),pp.29-41. | Abbas Najim Salman, Assel Hussein Ali and Maha A. Mohammed | 2012 |
| 10 | Single and Double Stage ShrinkageEstimators for the Normal Mean withThe Variance Cases. | International Journal of Statistics, ISSN:2051-8285,Vol.(38), No.(2), pp. 1127-1134. | Abbas N. Salman,Aseel H. Ali,Muna D. Salmanand Maha A. Mohammed | 2014 |
| 11 | Numerical solution for weight reduction model due to health campaigns in Spain | AIP Conf. Proc.1682, 020005 (2015); 10.1063/1.4932414, pp. (020005-1)-(020005-6). | Maha A. Mohammed, Noor Fadiya Mohd Noor, Zailan Siri, and Adriana Irawati Nur Ibrahim | 2015 |
| 12 | A non-conventional hybrid numerical approach with multidimensional random sampling for cocaine abuse in Spain | International Journal of BiomathematicsPublisher:World Scientific Publishing Co. Pte LtdVol.11, No.8,pp.185-0110. | Maha A. Mohammed, Noor Fadiya Mohd NoorAdriana Irawati Nur Ibrahim and and Zailan Siri  | 2018 |
| 13 | Mean Monte Carlo Finite Difference Method for Random Sampling of a Nonlinear Epidemic System | [Sociological Methods & Research](https://www.researchgate.net/journal/0049-1241_Sociological_Methods_Research)Publisher: SAGE publications INCVol.48, No.1, pp. 34-61 | Maha A. Mohammed, Adriana Irawati Nur Ibrahim, Zailan Siri, and Noor Fadiya Mohd Noor | 2019 |
| 14 | Approximate Solutions for Alcohol Consumption Model in Spain | Ibn AL-Haitham Journal for Pure and Applied ScienceVol.*32,* No.*3* | Mahdi A. Sabaa,Maha A. Mohammed,and Sinan Hatif Abd Almjeed | 2019 |
| 15 | Approximate Solutions of Nonlinear Smoking Habit Model | Iraqi Journal of Science,Vol. 61, No. 2, pp: 435-443 | Mahdi A. Sabaa,Maha A. Mohammed | 2020 |
| 16 | Runge-kutta Numerical Method for Solving Nonlinear Influenza Model | Journal of Physics: Conference Series – IOPscienceVol.1879 | Shatha Jabbar Mohammed,Maha A. Mohammed | 2021 |
| 17 | Solving Nonlinear COVID-19 Mathematical Model Using a Reliable Numerical Method | Ibn AL-Haitham Journal For Pure and Applied SciencesVol. 35, No. 2, pp: 97-107 | Emad Talal Ghadeer, Maha A Mohammed | 2022 |
| 18 | Mean Latin Hypercube Runge\_Kutta method to Solve the Influenza Model | Iraqi Journal of ScienceVol. 63, No. 3, pp: 1158-1177 | Shatha Jabbar Mohammed, Maha A. Mohammed | 2022 |
| 19 | Applying a suitable approximate-simulation technique of an epidemic model with random parameters | International Journal of Nonlinear Analysis and Applications (IJNAA)Vol. 13, No. 2, pp: 963–970 | Emad Talal Ghadeer, Maha A. Mohammed | 2022 |
| 20 | Solving the Created Equations from Lomax Distribution | AIP Conference Proceedings | Hussein Jabbar Mohammed, Maha A. Mohammed | 2022 |
| 21 | Solving the Created Equations from Power Function Distribution | Iraqi Journal of ScienceVol. 63, No. 7, pp: 3073-3087 | Hussein Jabbar Mohammed,  Maha A. Mohammed | 2022 |
| 22 | New techniques to estimate the solution of autonomous system | Commun. Math. Biol. Neurosci. 2023, Article ID 87 | Mahdi A. Sabaa,Maha A. Mohammed | 2023 |
| 23 | Comparison of Some Numerical Simulation Techniques for COVID-19 Model in Iraq | Ibn AL-Haitham Journal For Pure and Applied Sciences 36 (3), 289-305 | Mahdi A. Sabaa,Maha A. Mohammed, NFM Noor | 2023 |
| 24 | Suitable Methods for Solving COVID-19 Model in Iraq | Wasit Journal for Pure sciences 2 (2), 86-103 | Mahdi A. Sabaa,Maha A. Mohammed | 2023 |
| 25 | A reliable numerical simulation technique for solving COVID-19 model | Commun. Math. Biol. Neurosci. 2023, Article ID 68 | Mahdi A. Sabaa,Maha A. Mohammed | 2023 |
| 26 | Some Efficient Proposed Numerical Simulation Techniques to Estimate the Solution of Epidemiological Model |  | Mahdi A. Sabaa,Maha A. Mohammed | 2023 |