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About me: _____

I am currently, a faculty member in the Mathematical Sciences Department- College of Science at Mustansiriyah University, Baghdad, Iraq. In January 2020, I finished a postdoctoral fellowship at the University of Guelph in the Department of Mathematics and Statistics, Guelph Ontario, Canada. I completed my Ph.D. in May 2019, and my thesis has majored in Applied Mathematics.

Skills: _____

Languages: English & Arabic



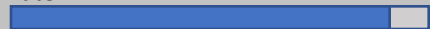
Windows & Linux



MATLAB



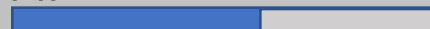
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Maple



SPSS



Education

- PhD in Mathematics, Math& stats Department/ University of Guelph, 2014-2019.
- M.Sc.in Mathematics, Science college/ Mustansiriyah University, 1999-2002.
- B.Sc. in Mathematics, Science college/ Mustansiriyah University, 1992-1997.

Certifications

- Graduate Student University Teaching Conference, University of Guelph, August, 2014.
- Certificate Of English Proficiency from Open Learning and Educational Support, University of Guelph, February. 2014.
- Internet and Computing Core Certification (IC3), 2011.
- TOEFL. I T P- AMIDEAST, 2010.

Research interests

Game theory and Applications, Mathematical modeling, Dynamical systems, Nash Equilibrium and Equilibrium problems, Population Behavior and Health Policy, Applications related to Engineering problems.

Work Experience

- Director of Studies & Planning Division (SPD) in college of science - Mustansiriyah University, Sep. 2020
- Postdoctoral fellow, Department of Mathematics & Statistics, University of Guelph, Jun 2019.
- Teacher Assistant (TA) in Mathematics and statistics in University of Guelph, 2015-2018.
- PhD student in mathematics and statistics department in university of Guelph, ON, Canada, 2014-2019.
- Director of continuous education department in the presidency of Al- Mustansiriyah University, Sept. 1, 2012.
- Director of Performance Evaluation Section / Dept. of Quality Assurance / Mustansiriyah University 2012-2013.
- Director of Continuous Education unit in college of science /Mustansiriyah University, 2011-2012.
- Faculty member in Mathematics department /Science College / Mustansiriyah University, 2005-2013.

Conferences & Workshops

- AMMCS 2019-SS DMI & SS COA, (Two different talks in two different sessions), August 18-23, 2019, Waterloo, Ontario, Canada.
- Fields-CQAM Industrial Problem-Solving Workshop, the discussion was about” Mathematical Methods to Estimate Burden of Influenza-Attributable Complications”, May 22 to June 1, 2019, University of Toronto, Canada.
- Frontiers of Applied Mathematics, August 1 - 2, 2018, University of Waterloo, Waterloo, ON, Canada.
- NRC-Ottawa Industrial Problem-Solving Workshop, the discussion was about” Develop a numerical tool for the depolluting effect of TiO₂”, May 28 to June 1, 2018, University of Ottawa, Canada.
- AMMCS 2017, Waterloo, Ontario, Canada.
- Ammcs-Caims Congress2015, Waterloo, Ontario, Canada, June 7-12, 2015.
- The conference of Karbala University, Karbala-Iraq, 3-5Apr. 2010.
- The first Iraqi-French Mathematics conference in cooperation with college of science, Salaheddin University-Erbil, Erbil-Iraq, 14-18-Nov.-2009.
- The 10th scientific conference, Al Mansour University College and Iraqi Association and information, Baghdad-Iraq, 24-25-Oct.-2009.
- The 1st National Conference in Mathematical Sciences, Al-Mustansiriyah University, Baghdad-Iraq, Sep 2001.

Publications

- RASHEED, M., Sarhan, M. A., Jaber, Ahmed, Shawki, Bouras, D., Al-Darraj, M. N., & Rashid, A. (2022). Statistical Analysis of Aluminum Doped Titanium Dioxide Using Solid State Method. *Journal of Al-Qadisiyah for computer science and mathematics*, 14(3), Page-1.

DOI: <https://doi.org/10.29304/jqcm.2022.14.3.955>

- Ali Hasan Ali, Ahmed Shawki Jaber, Mustafa T. Yaseen, Mohammed Rasheed, Omer Bazighifan, Taher A. Nofal, "A Comparison of Finite Difference and Finite Volume Methods with Numerical Simulations: Burgers Equation Model", *Complexity*, vol. 2022, Article ID 9367638, 9 pages, 2022.
<https://doi.org/10.1155/2022/9367638>

- RASHEED, M., Sarhan, M. A., Jaber, Ahmed. Shawki., Bouras, D., Al-Darraji, M. N., & Rashid, A. (2022). Statistical Analysis of Aluminum Doped Titanium Dioxide Using Solid State Method. *Journal of Al-Qadisiyah for computer science and mathematics*, 14(3), Page-1. DOI: <https://doi.org/10.29304/jqcm.2022.14.3.955>
- Ali, A. H., Jaber, Ahmed. Shawki., Yaseen, M. T., Rasheed, M., Bazighifan, O., & Nofal, T. A. (2022). A Comparison of Finite Difference and Finite Volume Methods with Numerical Simulations: Burgers Equation Model. *Complexity*, 2022. <https://doi.org/10.1155/2022/9367638>
- McCarthy, Z., Athar, S., Alavinejad, M., Chow, C., Moyles, I., Nah, K., Jaber,A., ... & Liu, S. (2020). Quantifying the annual incidence and underestimation of seasonal influenza: A modelling approach. *Theoretical Biology and Medical Modelling*, 17(1), 1-16. <https://tbiomed.biomedcentral.com/articles/10.1186/s12976-020-00129-4>
- Cojocar, M. G., Migot, T., & Jaber, A. (2019). Controlling infection in predator-prey systems with transmission dynamics. *Infectious Disease Modelling*, <https://doi.org/10.1016/j.idm.2019.12.002>.
- Cojocar, M. G., & Jaber, A. S. (2018). Optimal Control of a Vaccinating Game toward Increasing Overall Coverage. *Journal of Applied Mathematics and Physics*, 6(04), 754. <https://www.scirp.org/journal/paperabs.aspx?paperid=83944> .
- Jaber, A. S., & Cojocar, M. G. (2018). The optimal control of Axelrod's social norm game. *Optimal Control Applications and Methods*, 39(2), 949-962, <https://doi.org/10.1002/oca.2390> .
- Jaber, A. S. (2011). Solving Non Linear Function with Two Variables by Using Particle Swarm Optimization Algorithm. *Engineering and Technology Journal*, 29(5), 1021-1031, https://etj.uotechnology.edu.iq/article_30777.html.
- Al_Azawi, F. H. A., & Al_Asady, A. S. J. (2010). Solving Linear Equations Systems Using Genetic Algorithm. *AL-MANSOUR JOURNAL*, (14 (2)), https://etj.uotechnology.edu.iq/article_30777.html.
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- Kadhim, A. J., & Jaber, A. S. (2010). Numerical Treatment for nth Order Linear Functional-Differential Equations Using Nyström's Method. *journal of the college of basic education*, 15(64), 117-128. <https://www.iasj.net/iasj?func=article&ald=10562>
- Al_Asady, A. S. J., & Al_Azawi, F. H. A. (2010). Solving Linear Equations Systems Using Genetic Algorithm. *AL-MANSOUR JOURNAL*, (14 (2)), 143-159.
- Al-Saadi S. K, & Jaber A. S."E_q-approximation of function in weighted L_P – space ($1 \leq P < \infty$)", *Journal of Karbala University*; No.2/ 2010.
- Jaber, A. S, Al-Joubory, H. (2009). Stabilized 4th order Runge-Kutta Sub domain method for Volterra integral equation of the second Kind" *Salaheddin University College of Science Journal*.