



Mahdiah Azizian

General Information

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Educations

- Ph.D. in Applied Mathematics (Numerical Analysis)
Shahid Bahonar University of Kerman. (2013-2018)
Thesis:” Optimizing some dynamical models of tumor control using fuzzy dynamical models”.
Supervisor: Azim Rivaz (Associated Professor in Applied Mathematics)
Advisor: Ali Vahidian Kamyad (Full Professor in Applied Mathematics)

- **M.Sc.** in Applied Mathematics (Numerical Analysis), Shahid Bahonar University of Kerman, Kerman, Iran (2001-2003).
Dissertation:” Using Homotopy Method in Solving Linear systems”.
Supervisor: Mahmoud Mohseni Moghadam (Full Professor in Applied Mathematics)
- **B.Sc.** in Applied Mathematics, Shahid Bahonar University of Kerman, Kerman, Iran (1997-2000).
- Junior Proficiency Certificate in English, Iran Language Institute, 1997.

Work Experience

- **Lecturer** in Bioinformatics meeting, Mahani Research Center, Shahid Bahonar university of Kerman, May 2023.
- **Lecturer** in Epidemiology, transmission and disease control research group meeting, Hydatid Disease Research Center, Kerman University of Medical Sciences, Feb 2022.
- **Lecturer** in Epidemiology, transmission and disease control research group meeting, Hydatid Disease Research Center, Kerman University of Medical Sciences, July 2020.
- **Lecturer** in **The 1st Iranian Symposium on Interdisciplinary Studies in Medical Sciences**, National Library of Iran, Tehran, Feb 2020.

- **Lecturer** in **The 7th Seminar on Numerical Analysis and Applications**, Shahid Bahonar University of Kerman, Iran, July 2018.
- **Lecturer** in workshop of **Cancer Mathematical Modelling**, Future Research Center, Kerman University of Medical Sciences, Iran, May 2017.
- **Lecturer** in workshop of **Numerical Methods in Dynamical Systems**, Future Research Center, Kerman University of Medical Sciences, Iran, October 2016.
- Workshop of **Oratory**, Kerman University of Medical Sciences, Iran, December 2016.
- Workshop of **PBL**, Kerman University of Medical Sciences, Iran, May 2016.
- Workshop of **Small Group & Critical Thinking**, Kerman University of Medical Sciences, Iran, May 2016.
- Workshop of **Data Mining**, Shahid Bahonar University of Kerman, Iran, March 2016.
- Workshop of **Research in Teaching**, Kerman University of Medical Sciences, Iran, July 2015.
- Workshop of Multi Disciplinary Knowledge (**Mathematical Modeling of Tumor**), Kerman University of Medical Sciences, Iran, November 2015.

- Workshop of Integrative Oncology in Improving the Quality of Life in Cancer Patients, Kerman University of Medical Sciences, Iran, March 2015.
- Workshop of LaTeX training, Shahid Bahonar University of Kerman, Iran, October 2014.
- Research period of **Mathematical Modeling of Tumor Growth, Cancer Stem Cells, Control Theory in Cancer Control**, Ferdowsi University of Mashhad, Iran, July-September 2014.
- Workshop of **Advanced Numerical Linear Algebra Softwares**, Shahid Bahonar University of Kerman, Iran, June 2014.
- Workshop of How to make a **powerful power point presentation**, Kerman University of Medical Sciences, Iran, January 2014.
- Workshop of The **Method of Writing and Publishing Papers** (primary and advanced levels), Shahid Bahonar University of Kerman, Iran, May 2012.
- Workshop of **Applications of Mathematics and Control Theory in Medical Sciences**, Bojnourd Branch, Islamic Azad University, Iran, November 2011.
- Workshop of **English Scientific Writing Course**, Kerman University of Medical Sciences, Iran, November 2009.

- Workshop of Article Writing, Kerman University of Medical Sciences, Iran, July 2008.
- Workshop of Using **Endnote Software in References Management**, Clinical Physiology Research Center, Vice chancellor of Research, Kerman University of Medical Sciences, Iran, March 2006.
- Workshop of **Application of Spss in Researches**, Shahid Bahonar University of Kerman, Iran, January 2006.
- Workshop of Research Methodology in Basic Sciences, Shahid Bahonar University of Kerman, Iran, March 2006.

Administrative and Scientific Positions

- Variable member of Research Council of Medicine School; (since 2010)
- Advisor of medical students (2011-2014)
- Director, Workshop of Statistics Forms of Outpatients, Statistics Department, Vice Chancellor of Research, Kerman University of Medical Sciences.(2007)
- Superintendent, Statistics Department, Vice Chancellor of Research, Kerman University of Medical Sciences (2004-2007)

Awards

- Superior instructor of Kerman University of Medical Sciences, 2014.
- Distinct student among students in department of mathematics in Shahid Bahonar University, 2005.
- Top Student among students in department of mathematics in Shahid Bahonar University, 2003.

Teaching Experience

- 1) Basic mathematics for pharmacy students (since 2004)
- 2) Engineering mathematics for health students (since 2004)
- 3) Basic mathematics (I) for health students (since 2004)
- 4) Basic mathematics (II) for health students (since 2004)
- 5) Preliminary mathematics for health students (since 2004)
- 6) Calculus (I) for health students (since 2009)
- 7) Calculus (II) for health students (since 2009)
- 8) Differential Equations for health students (since 2009)

- 9) Mathematics and its applications in management for medical information technology students (since 2004)
- 10) Mathematics and applications for M.S students (since 2009)

Publications

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- Hindawi Computational and Mathematical Methods in Medicine Volume 2022, Article ID 6624471
- Mehran Nakhaeizadeh, Maryam Chegeni, Masoumeh Adhami, Hamid Sharifi, Milad Ahmadi Gohari, Abedin Iranpour, Mahdieh Azizian, Mashaallah Mashinchi, Mohammad Reza Baneshi, Mohammad Karamouzian, Ali Akbar Haghdoost, Yunes Jahani, Estimating the Number of COVID-19 Cases and Impact of New COVID-19 Variants and Vaccination on the Population in Kerman, Iran: A Mathematical Modeling Study, Computational and Mathematical Methods in Medicine, 2022, Article ID 6624471.
- Alim Al Ayub Ahmed, Biju Theruvil Sayed, Ismail Suardi Wekke, Mulyanto Widodo, Dian Rostikawati, Muneam Hussein Ali, Hamed Ali Abdul Hussein, Mahdieh Azizian, An Empirical Study on the Effects of Using Kahoot as a Game-Based Learning Tool on EFL Learners' Vocabulary Recall and Retention, Education Research International, 2022, Article ID 9739147.
- Mehrdad Nazarieh, Mohammad Hasan Razmi, Mahdieh Azizian, Muhammad Usman Ghani, A Brief History of Listening Comprehension in Second Language Teaching and learning, Education Research International, 2022, Article ID 3894457
- Amir Javid, Alireza Nasiri, Hakimeh Mahdizadeh, Seyed Mojtaba Momtaz, Mahdieh Azizian, Neda Javid, Determination and risk assessment of heavy metals in air dust fall particles, Environmental Health Engineering and Management Journal, 2021, 8(4), 319-327

- A. Rivaz, M. Azizian, M. Soltani, Various Mathematical Models of Tumor Growth with Reference to Cancer Stem Cells: A Review, Iranian Journal of Science and Technology, Transactions A: Science, 2019.
- A. Rivaz, M. Azizian, A full fuzzy generalization of mathematical model of tumor growth and its analysis, Journal of Intelligent and Fuzzy systems, 2018.
- M. Azizian, The evidence of tumor growth paradox in a cancer mathematical model as an integro-partial differential system, The 7-th Seminar on Numerical Analysis and Its Applications, 2018.
- A. Rivaz, M. Azizian, Solving fuzzy linear equations using weighted fuzzy arithmetic, The 43 rd. Annual Iranian Mathematics Conference, 2012.
- M. Azizian, Population Growth Function in Santilli's Isotheory. Hadronic Journal. December 2006; 741-752.
- M. Azizian, Isoshapes in Santilli's Isotheory. Hadronic Journal. April 2005; 187-208, **referenced in the book** "Isodual Theory of Antimatter with applications to Antigravity, Grand Unification and Cosmology, by Ruggero Maria Santilli, **Springer**.

Other Skills

Expert in using mathematical softwares and programming with Mathematica and Matlab, using LaTeX and Xepersian, analyzing mathematical models in biologic systems, Cancer mathematical modelling.