CURRICULUM VITAE

Ibrahim Ali Jawarneh

June 2021

PERSONAL

Place of Birth	Jordan
Date of Birth	January 15, 1978
Marital Status	Married
Nationality	Jordanian
Work Address	Department of Mathematics, College of Science, Al-Hussein Bin Talal University, Ma′an, Jordan. Phone: +962-3-2179000 Ext.:6303, E-mail: Ibrahim.a.jawarneh@ahu.edu.jo
Academic Rank (date)	Assistant Professor (2018)
Permanent Address	11941 Amman, Jordan. Cell Phone:+962-779625709, E-mail: : Ibrahim.a.jawarneh@ahu.edu.jo

ACADEMIC QUALIFICATIONS

2018	**Ph.D.,** Algebraic Topology and its Applications, NMSU, USA
2015	**M.Sc.,** Mathematics, NMSU, USA
2005	**M.Sc.,** Mathematics, Al al-Bayt University, Jordan
2001	**B.Sc.,** Mathematics, Yarmouk University, Jordan

SPECIALTY

General Specialization:	Mathematics
Specialization :	Algebraic Topology and its Applications

CAREER HISTORY

August 2018 -Present	Assistant Professor**,** Department of Mathematics**,** College of Science**,** Al-Hussein Bin Talal University, Ma'an, Jordan.

January 2014 – May 2018	Graduate Teaching Assistant, Department of Mathematics, NMSU, USA
August 2006 – June 2013	Lecturer, Department of Mathematics, Taif University, KSA

Committees

2020- Present	Schedule Committee at Department of Mathematics, AHU
	Quality Assurance Committee at Department of Mathematics, AHU

HONORS, SCHOLARSHIPS, AWARDS AND GRANTS

2013-2018 Ph.D. Scholarship from Al-Hussein Bin Talal University-Jordan to complete Ph.D., USA

2014-2015	M.Sc. Scholarship NMSU, USA
2014-2015	Ph.D.. Scholarship NMSU, USA

RESEARCH INTEREST

Conley Index, Dynamical Systems, Fussy Topology, Generalized Topology, Algebra

PUBLICATIONS

Peer-reviewed journal articles

- Ibrahim Jawarneh, and Nesreen Alsharman, The Mathematical Model and Deep Learning Features Selection for Whorl Fingerprint Classifications. March 2021 International Journal of Computational Intelligence Systems 14(1):1208-1216.
- Mary Ballyk, Ross Staffeldt, and Ibrahim Jawarneh, A nutrient-prey-predator model: Stability and bifurcations. November 2020 Discrete and Continuous Dynamical Systems- Series S 13(11):2975-3004.

- Nesreen Al-Sharman, and Ibrahim Jawarneh, GoogleNet CNN Neural Network towards Chest CTCoronavirus Medical Image Classification. May 2020, Journal of Computer Science 16(5):620-625.

CONFERENCES AND PROCEEDINGS

- 2nd International Conference on Mathematical and Related Sciences (ICMRS 2019) - Antalya-Turkey. Detecting Biological Connections Between Some Equilibria in a Nutrient Prey-Predator Model by Homology Conley Index Method.
- NeSA 9th International Conference - NMSU-USA, April 1st, 2017: Dynamical Systems and Conley Topological Index I. I explained the general idea of Conley index where the rigorous numerical computation can be combined with topological methods to study existence and dynamics of families of solutions of dynamical systems which are often described by differential equations with parameters.
- Graduate Research and Art Symposium (GRAS), NMSU-USA, April 7th, 2017, Dynamical Systems and Conley's Topological Index II. I explained the idea of Conley index and its applications in physics and mechanical engineering. Nonlinear phenomena in physics and engineering are often described by differential equations with parameters, and the study of changes in the solution structure of such equations is essential for a good understanding of the phenomena.
- 20th Joint UTEP/NMSU-USA. Workshop on Mathematics, Computer Science, and Computational Sciences, April 8th, 2017, Dynamical Systems and Conley Topological Index III. I explained how we can capture the heteroclinic saddle connection in a dynamical system using the connection matrices which based on Conley index.

TEACHING

Courses Taught-undergraduate

- Topology
- Abstract Algebra I
- Abstract Algebra II
- Calculus I and Calculus II (Coordinator)
- Calculus III
- Advanced Calculus
- Linear Algebra I

Courses Taught-graduate

- General Topology

SKILLS

Certificates and Training

- ICDL (Basic skills in computer science) - Jordan.
- Intel (1) and Intel (0+1) (Teaching for future by using computer) - Jordan.
- Methods and strategies of assessing students - Taif University - KSA.
- Methods and strategies of university teaching - Taif University - KSA.
- Developing skills of effective communication - Taif University - KSA.
- Principles and guidelines of building a university syllabus - Taif University - KSA.

Supervising Theses (Master Degree)

- Doha Barham, ”A Modified Van Der Pol Oscillator: A Topological Method Approach”.
- Shahed Abourotha, ”Quotient Topology in A Generalized Topology”.
- Mohammad Al-Hazaimeh, ”Complex Fuzzy Topological Space on A Complex Fuzzy Space”.
- Ahmed Badarneh, ”Compact and Lindelof spaces in A Generalized Topology”.
- Ahmad Abd Alnabi ”Hyper Q-fuzzy HX Groups”.
- Moumin Bni Amer ”Complex Bipolar Multi-Fuzzy Sets”.

Projects

- ”Complex fuzzy topological space on a complex fuzzy space” AL-Hussein Bin Talal University-Research Fund. Project number 111/2021.

Languages

- Arabic (native)
- English (excellent)