CURRICULUM VITAE

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1. Personal Data

Date of Birth: 26/5/1976
Nationality: Canadian / Jordanian
Gender: Male

2. Education

- Ph.D. (Mathematics / Algebraic Topology) 2008, Memorial University of Newfoundland, St. John's, Newfoundland and Labrador, Canada.
- M.Sc. (Mathematics / Algebra) 2002, Yarmouk University, Irbid, Irbid, Jordan.
- B.Sc. (Pure Mathematics) 1998, Damascus University, Damascus, Damascus, Syria.

3. Ph.D. Dissertation

Coincidence Nielsen Numbers for Covering Maps for Orientable and Non-orientable Manifolds, Memorial University of Newfoundland, St. John's, Newfoundland and Labrador, Canada.

4. Employment

Academic Positions

- Associate Professor, Department of Basic Sciences, Princess Sumaya University for Technology, Amman, Jordan
  September 16, 2017 - now.

- Assistant Professor, Department of Basic Sciences, Princess Sumaya University for Technology, Amman, Jordan
  September 14, 2012 - September 15, 2017.

- Lecturer, Department of Mathematics and Statistics, Al al-Bayt University, Mafraq, Jordan
  September 15, 2009 - September 14, 2017.

- Instructor, Department of Sciences, Jerash University, Jerash, Jordan
  October, 2001 - October, 2002.

Administrative Positions

- Chairman of Department of Basic Sciences, School of Engineering, Princess Sumaya University for Technology, Amman, Jordan, September 2014 - September 2017.

5. Research Interests

- Algebraic Topology and Differential Topology: Nielsen Fixed Point Theory, Nielsen Coincidence Theory, Nielsen Periodic Point Theory, Equivariant Nielsen Theory, The Epsilon Nielsen Fixed Point Theory, Minimum Theorem, and Semi-index.

- Algebra: Graded rings and modules.

- Algebra and Graph Theory.

6. Honors and Awards

- Research awards from Princess Sumaya University for Technology, Amman, Jordan, 2017-now

- Yarmouk University Award of Distinction, Yarmouk University, Irbid, Jordan, 2002.

- Al-Basel Award for Distinction, Damascus University, Damascus, Syria, 1996-1998.

7. Fellowships and Scholarships

- Memorial University of Newfoundland Scholarship / Ph.D. program, Memorial University of Newfoundland, st. John's, NL, Canada, 2003-2007.

- Yarmouk University Scholarship / M.Sc. program, Irbid, Jordan, 1999-2001.

8. Teaching Experience

- **Graduate Courses**
  - Princess Sumaya University for Technology: Engineering Analysis (M.Sc.) , Stochastic Processes (M.Sc.), Statistics and Probability for Computing Sciences (Ph.D.).

  - Al al-Bayt University: Advanced Topology (M.Sc.).

- **Undergraduate Courses**
  - Princess Sumaya University for Technology, Jordan: Precalculus, Calculus (I, II, and III), Math for Business, Statistical Methods for Business, Engineering Mathematics I (ODEs), Engineering Mathematics II (Line integrals, Fourier series and Fourier transform, and PDEs), Discrete Math I, Discrete Math II (Number Theory, Relations, Graph Theory, Boolean Algebra), Applied Probability, Linear Algebra, and Numerical Analysis.

  - Al al-Bayt University, Jordan: Calculus (I, II, III), Set Theory, Abstract Algebra I (Group Theory), Linear Algebra I (Linear Systems, Matrices, Vector Spaces), Topology (I, II), Euclidean and Non-Euclidean Geometry.

- Memorial University of Newfoundland: Algebra and Trigonometry (pre-calculus), Calculus I.

- Jerash University: Calculus (I, II, III), Set Theory, Abstract Algebra I (Group Theory), Linear Algebra (I, II).

9. Membership of Committees

- **University**

1. Designation committees for new members in the department of basic Sciences (last one was in 2020).
2. Promotion Committees.
3. Committees that prepared and reviewed the admission exams.
4. Graduate studies Committee / School of Engineering.
5. Study plans Committee.
6. Committee that prepared the math courses in Computing Sciences Ph.D. program.
7. Committee that prepared the math course "Decision Making" in the master's program of Engineering Administration co-taught with University of Arizona.
8. ABET committee in the school of engineering.
9. School of Engineering representative in the university council.
10. Admission and registration committee.
11. The department of basic Sciences portfolio committee.
12. Member in Master thesis defense committee, Amany Qderat, Jordan University for Science and Technology, 2015.
13. Other committees.
14. Courses Equivalence Committee.
15. Quality Insurance committee of the department of basic sciences (DBS).

16. The committee of creating a new program related to "Applied Mathematics".
17. The committee of Evaluating the exams of DBS.

10. Professional and Scientific Meetings

1. Nielsen Theory and Related Topics, KU leuven - KULAK, Kortrijk, Belgium, June 3 - 8, 2019.
2. MATLAB and Its Applications, King Hussein bin Talal University, April 21, 2016.
3. International Conference On Nielsen Theory, Memorial University of Newfoundland, St. John's, NL, Canada, June 9 - 13, 2009.
4. The International Conference on Nielsen Theory and Related Topics, Memorial University of Newfoundland, St. John's, NL, Canada, June 28 - July 2, 2004.

11. Publications

1. M. Refai and **F. Moh'D**, Characterizations of augmented graded rings, Turkish Journal of Mathematics, 29 (2005), 211-220.
2. M. Refai and **F. Moh'D**, First strongly graded modules. Int. J. Math. Game Theory Algebra, 15 (2006), no. 4, 451–457.
3. M. Refai and **F. Moh'D**, More properties on various types of strongly graded Rings, Pacific-Asian Journal of Mathematics, Volume 1, No. 2 (2007), 129–135.
4. Mashhoor Refai and **Fida Moh'D**, On Flexible graded modules, Italian Journal of Pure and Applied Mathematics, No. 22 (2007), 125-132.

5. **F. Moh'D**, Coincidence Nielsen numbers for covering maps for smooth manifolds, Topology and Its Applications, 157 (2010), 417-438.

6. **F. Moh'D** and M. Refai, More Properties of Flexible Graded Modules, Italian Journal of Pure and Applied Mathematics, 32 (2014), 103-114.

7. **F. Moh'D**, The Coincidence Nielsen number for covering maps for orientable manifolds, Indian Journal of Pure and Applied Mathematics, Issue 6, Volume 45 (2014), 875-923.

8. **F. Moh'D**, An algebraic method for computing $N^{\epsilon}(f)$, Topology and Its Applications, Volume 161, No. 1 (2014), 1-16.

9. **F. Moh'D**, The covering index and the covering Nielsen number, Topology and Its Applications, 206(2016) 8-23.

10. **F. Moh'D** and M. Ahmed, Group graded types of B´ezout modules, Communications of the Korean Mathematical Society, 32 (2017), No. 3, pp. 523-534.

11. **F. Moh'D** and Maisa Khader, Graded Modules over First Strongly Graded Rings, Malaysian Journal of Mathematical Sciences, 11(2): 163-178 (2017).

12. **F. Moh'D**, M. Refai, and M. Ahmed, On the structure of augmented graded rings, JP Journal of Algebra, Number Theory, and Applications, Volume 40, Number 3 (2018), 377-395.

13. M. Ahmed and **F. Moh'd**, THE HECKE ALGEBRA $H(PQ, PZ)$ AND ITS RELATION TO THE CROSSED PRODUCT $H(PQ(+), PZ)\times \{1, -1\}$, Italian Journal of Pure and Applied Mathematics, 39 (2018), 569-578.

14. M. Qasaimeh, R. Al-Qassas, **F. Moh'd**, and Shadi Aljawarneh, A Novel Simplified AES Algorithm for Lightweight Real-Time Applications: Testing and Discussion, Recent Patents on Computer Science, Volume: 12 (2019), 1-11.

15. **F. Moh'd**, The relative covering Nielsen number for coincidences, Topology and Its Applications, volume 268 (2019), https://doi.org/10.1016/j.topol.2019.106904

16. **F. Moh'd**, Decompositions of graded maximal submodules, Journal of Communications of the Korean Mathematica Society, Volume 37 (2022), 1-15.

17. **F. Moh'd, M. ahmed, and M. Refai**, Flexible Modules and Graded Rings, Bol. Soc. Paran. Mat., Volume 41 ,2023, 1-14.

18. **F. Moh'd, M. Ahmed**, Simple-intersection graphs of Rings, AIMS Mathematics, Volume 8, Issue 1, 1040-1045, 2023.

19. **F. Moh'd, M. Ahmed**, The Simple-Intersection Graph of A Semisimple Ring and Its Applications in Solving Coloring Optimization Problems, submitted.

20. **Mamoon Ahmed and Fida Moh'd**, A new intersection-graph type for modules, submitted.

21. **F. Moh'd, P. Heath**, Periodic Points of self-functions on infra-solvmainfolds, preprint.