




DR. AYAT A. ABABNEH

CURRICULUM VITAE

 228 Math Bldg, The University of Jordan, Amman, Jordan
 PO Box 13451, The University of Jordan, Amman 11942, Jordan
 a.ababneh@ju.edu.jo
 <http://academic.ju.edu.jo/a.ababneh>

UPDATED: OCTOBER 20TH, 2022

PERSONAL INFORMATION

- Citizenship: Jordanian.
- Marital Status: Married; Mother of three children.
- Place of Residence: Amman, Jordan.

EDUCATION

- **Ph.D. in Mathematics (2018-2022), The Ohio State University, Columbus, OH.**
Area of study: Algebraic Topology.
Dissertation title: *Homology of Gaussian Random Chains* (Advisor: Prof. Matthew Kahle).
- **M.Sc. in Mathematics (2008-2010), Yarmouk University, Jordan.**
Area of study: Mathematical Analysis.
Thesis title: *Simultaneous Farthest Points in Vector Valued Function Spaces* (Advisor: Prof. Sharifa Al-Sharif).
- **B.Sc. in Mathematics (2004-2008), Yarmouk University, Jordan.**
My bachelor's, master's, and doctoral GPAs are all excellent.

POSITIONS HELD

- Assistant Professor (2022-present), Mathematics Department, The University of Jordan, Amman, Jordan.
- Research Assistant (2019-2022), Mathematics Department, The Ohio State University, Columbus, OH.
- Teaching Assistant (2018-2019), Mathematics Department, The Ohio State University, Columbus, OH.
- Full-time Lecturer (2014-2018), Mathematics Department, The University of Jordan, Amman, Jordan.
- Full-time Lecturer (2010-2014), Mathematics Department, Yarmouk University, Irbid, Jordan.

RESEARCH INTERESTS

- Main Interests: Algebraic topology, stochastic topology, combinatorial topology.
- Other Interests: Configuration spaces, Jordan algebras, approximation, optimization.

PUBLISHED/SUBMITTED ARTICLES

- A. Ababneh, M. Kahle. Maximal persistence in random clique complexes. Submitted for publication.
- B. Alzalg, K. Tamsaouete, L. Benakkouche, A. Ababneh. The Jordan algebraic structure of the quadratic rotated cone. Submitted for publication.
- Sh. Al-Sharif, A. Ababneh, M Al-Qahtani, Best coapproximation in certain metric spaces. *Jaen journal on approximation*, 11(1), 91–100 (2019).
- B. Alzalg, K. Badarneh, A. Ababneh. Infeasible interior-point algorithms for stochastic second-order cone optimization. *Journal of Optimization Theory & Applications*, 181(1) 324–346 (2019).
- A. Ababneh, Sh. Al-Sharif, J. Jawdat, Simultaneous farthest points in vector valued function spaces. *Nonlinear Functional Analysis and Applications*, 16(1) 63–77 (2011).

WORKSHOPS

- Midwest Arithmetic Geometry and Number Theory Series 2019. The Ohio State University, Columbus, OH. Oct. 12–13, 2019.
- Junior Geometry and Topology in the Midwest. University of Wisconsin, Madison, WI. Oct. 13, 2018.
- Operational Research Practice in Africa. University of Science and Technology – Houari Boumediene in Algiers, Algeria. Apr. 19–23, 2015.

TEACHING EXPERIENCE

Below is a list of courses that I have taught. Responsibilities in most of these course included all aspects of teaching the course, including developing course materials/syllabus, creating specific assignments, preparing slide lectures, writing and administering exams, performing classroom instruction, lecturing, and grading. English is the language of instruction at the schools listed below.

<u>INSTITUTION AND LOCATION</u>	<u>COURSES TAUGHT</u>
The University of Jordan Amman, Jordan (2014-2018, & 2022-present)	MATH 362: Topology I
	MATH 202: Engineering Mathematics I
	MATH 102: Calculus III
	MATH 102: Calculus II
	MATH 101: Calculus I
The Ohio State University Columbus, Ohio (2018-2019)	MATH 103: Mathematics for Business
	MATH 1151: Calculus I (Course instructor)
	MATH 2568: Linear Algebra (Course tutor)
Yarmouk University Irbid, Jordan (2010-2014)	MATH 2255: Differential Equations (Course tutor)
	MATH 241: Linear Algebra I
	MATH 203: Ordinary Differential Equations I
	MATH 252: Discrete Mathematics for IT
	MATH 102: Calculus II
	MATH 101: Calculus I

HONORS AND AWARDS

- Research assistantship with full tuition waiver and stipend, Mathematics Department at The Ohio State University (2019-2022).
- Teaching assistantship with full tuition waiver and stipend, Mathematics Department at The Ohio State State University (2018/2019).
- Full scholarship from the University of Jordan to study Ph.D. in Algebraic Topology (2018-2022).
- First class honors in Mathematics, M.Sc. degree, Yarmouk University (2010).
- Dean's list of excellence for outstanding academic records, Yarmouk University (2004– 2008).
- Some travel and accommodation awards to attend in international events/workshops.

COMMITTEE MEMBERSHIPS AND SERVICES AT THE UNIVERSITY OF JORDAN

- Member of the Departmental Website Committee, 2022/2023.
- Secretary-General of the Mathematics Departmental Council, 2022/2023.

RESEARCH PROFILES AT UNIVERSAL IDENTIFIERS

- **On Google Scholar:** <https://scholar.google.com.pk/citations?user=XZuAMCcAAAAJhl=en>
- **On Research Gate:** <https://www.researchgate.net/profile/Ayat-Ababneh>

ASSOCIATION MEMBERSHIPS

- American Mathematical Society.
- Mathematical Association of America.

COMPUTER SKILLS

- Comfortable with C, C++, Sage, MAPLE.
- Familiarity with L^AT_EX– Overleaf.

REFERENCES

References are available upon request.