

Ishraq Al-Awamleh

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EDUCATION

Doctor of Philosophy, Mathematics, Department of Mathematical Sciences, New Mexico State University, NM, USA, May 2022.

Dissertation title: An Analysis of Some Nonlinear Partial Differential Equations Arising in Game Theory.

Advisor: Robert Smits

Master of Mathematics, Mathematics, Department of Mathematical Sciences, New Mexico State University, NM, USA, 2017.

Bachelor of Science, Mathematics, Department of Mathematics and Statistics, Al-Hussein bin Talal University, Ma'an, Jordan, 2010.

Master of Art and Science, Teaching Mathematics, Department of Mathematics, University of Texas at El Paso, Texas, USA, 2005.

Bachelor of Science, Chemical Engineering, Department of Chemical Engineering, University of Technology, Baghdad, Iraq, 2002.

ACADEMIC/TEACHING EXPERIENCE

Visiting Assistant Professor, Department of Mathematical Sciences, New Mexico State University, NM, USA, Summer 2022 - now.

Graduate Assistant, Mathematics, Department of Mathematical Sciences, New Mexico State University, NM, USA, 2015 - 2022.

Teaching Assistant, Department of Mathematical Sciences, University of Texas at El Paso, Texas, USA, 2002-2005.

Part Time Lecturer, Department of Mathematical Sciences, Al-Hussein Bin Talal University, Ma'an, Jordan, Spring and summer 2006.

RESEARCH INTERESTS

Stochastic Process, Non-linear Partial Differential Equations, Mathematics Education, Statistics, and Visual Assisted Pedagogy.

COURSES TAUGHT

As a **Visiting Assistant Professor** at New Mexico State University, Las Cruces, NM:

- Introduction to Statistics (**Online**) (**Summer 2022**), (**Online**) (**Fall 2022**)
- Intermediate Algebra (**Online**) (**Fall 2022**)

As a **Graduate Assistant** at New Mexico State University, Las Cruces, NM:

- Introduction to Statistics (**Online**) (**Fall 2021**), (**Online**) (**Spring 2022**).
- Calculus II (**Online**) (**Fall 2020**)
- Calculus I (**Spring 2020**, (**Online**) **Summer 2020**, (**Online**) **Spring 2021**)
- Pre-Calculus and Trigonometry functions (**Spring 2018**)
- College Algebra (**Spring 2017**, **Fall 2018**, **Summer 2019**, **Fall 2019**)
- Intermediate Algebra (**Fall 2016**)

As a **Part-Time Lecturer** at Al-Hussein Bin Talal University, Jordan:

- Discrete Mathematical Structures (**Summer 2006**)
- Mathematics for Classroom Teachers 1 and 2 (**Spring 2006**)

COURSE DEVELOPMENT

At *New Mexico State University*, Las Cruces, NM:

- Quantitative Foundation (**Summer 2018**)
- Math Placement Exams (**Summer 2017**)

PROGRAMMING SKILLS

- Matlab
- R Programming Language

AWARDS, SCHOLARSHIPS, AND DISTINCTIONS

- 2022, Travel Fund, ASBC, New Mexico state university, NM, USA.
- 2022, Student Awards, College of Arts and Sciences, New Mexico State University, NM, USA.
- 2021/2022, Joseph E. Kist Department of Mathematical Sciences Graduate Studies Current Use Fund, New Mexico State University, NM, USA.
- 2020/2021, Grad Success Scholarship, New Mexico State University, NM, USA.
- 2019/2020, Joseph E. Kist Department of Mathematical Sciences Graduate Studies Current Use Fund, New Mexico State University, NM, USA.

- 2017, Travel Fund, Department of Mathematical Science, Association Students of NMSU, and Graduate Student Counsel, New Mexico State University, NM, USA.
- 2017, Travel Grant, Mathematical Association of America (MAA) MathFest, Chicago, IL, USA.
- 2016, Travel Fund, Department of Mathematical Science, Association Students of NMSU, Graduate School, Graduate Student Counsel. New Mexico State University, NM, USA.
- 2016, Travel Grant, Mathematical Association of America (MAA) MathFest, Columbus, OH, USA.

TECHNICAL PAPERS AND CONFERENCES

1. **Ishraq Al-Awamleh** and Robert Smits “Statistical and Algebraic Properties for the 4-Laplacian”, submitted to Discrete and Continuous Dynamical Systems, MSP, October 2022.
2. **Ishraq Al-Awamleh** “Mean Value Properties for P-Harmonic Functions for Higher Dimensions”, submitted to the Journal of Elliptic and Parabolic Equations, Springer, July 2022.
3. **Ishraq Al-Awamleh** “Nonlinear Elliptic PDEs: Discrete Averaging Properties”, Fall Central Sectional Meeting, El-Paso, TX, September 2022.
4. **Ishraq Al-Awamleh** “A Statistical Representation of a Nonlinear Parabolic Partial Differential Equation”, New Mexico State University ProQuest Dissertations Publishing, 2022.
5. Robert Smits, **Ishraq Al-Awamleh** "Discrete Averaging Properties for Nonlinear Elliptic PDEs". In the 25th Joint UTEP/NMSU Workshop on Mathematics, Computer Science, and Computational Sciences, El-Paso, TX, November 2021.
6. Robert Smits, **Ishraq Al-Awamleh** "Averaging Properties and Solutions of Nonlinear Elliptic Partial Differential Equations which are not Variational in Nature". In the Probability Seminar, New Mexico State University, Las Cruces, NM, November 2021.
7. **Ishraq Al-Awamleh** "A Line by Line Translation of and Commentary on Ibn al-Hā'im's 1402 AD Didactic Verses "Al-Muqni' fi'l-jabr wa'l-muqābala" "Exposition of Algebraic Operations"", in progress.
8. **Ishraq Al-Awamleh** "Al Mkni fi'l-jabr wa'l-muqābala Exposition of Algebraic Operations by Ibn Al-Ha'im" In MathFest, July 26-29, 2017, Chicago, IL.
9. **Ishraq Al-Awamleh** "Al Mkni fi'l-jabr wa'l-muqābala Exposition of Algebraic Operations by Ibn Al-Ha'im" In MathFest, August 3-6, 2016, Columbus, OH.

10. The Inquiry-Based Learning (IBL) Forum and 19th Annual R.L. Moore Conference, "Expanding IBL throughout Higher Education", August 4, 2016, Columbus, OH.
11. Fares Fraij, Mahmoud Al-Quraan, Victor Winter, Arafat Awajan and **Ishraq Al-Awamleh**. "Software-Assisted Pedagogy for a Mathematics Course." In Proceedings of the International Conference On Excellence In Education 2009: Future Minds and Creativity, Ulm, Germany, 2009
12. **Ishraq Al-Awamleh (Graduate Research with Hamida Dogan)**. "Analysis of student responses on linear algebra questions to document the effect of a set of visual representations. " Department of Mathematics, University of Texas at El Paso, Texas, USA, 2005.

REFERENCES: Will be provided upon request