Nancy Matar
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EDUCATION

Ph.D. in Mathematics   **August 2019**

Department of Mathematics, Central Michigan University, Mt. Pleasant, MI, 48859 USA.
Dissertation: On the minimum semidefinite rank of signed graphs.
Advisor: Dr. Sivaram Narayan.

M.Sc. in Mathematics   **December 2012**

Department of Mathematics, University of Jordan, Amman, Jordan.
Thesis: Remotal Sets in Banach Spaces.
Advisor: Dr. Roshdi Khalil.

B.Sc. in Mathematics   **May 2009**

Department of Mathematics, University of Jordan, Amman, Jordan.

EXPERIENCE

Instructor of Mathematics   Warren Wilson College

Courses taught:
1. Calculus II (MAT 2420),
2. Applied Statistics (MAT 1415/1416).

Adjunct Instructor   Western Carolina University

Courses taught:
1. Mathematical Concepts (MATH 101),
2. Applied Statistics (MATH 170).

Adjunct Instructor   A-B Tech Community College

Worked as a substitute instructor in the Mathematics Department.

Graduate Assistant   Central Michigan University

Full-time graduate student in the Department of Mathematics. Held teaching assistantships, research assistantships, and doctoral fellowship at various times.

• Graduate Teaching Assistant

Courses taught:
1. Pre-Calculus Mathematics (MTH 130)
2. Intermediate Algebra (MTH 105)
Semi-Independent Instructor. Course Coordinator: Julia Burch.
In addition, I have taught the following as teaching internships:
3. Discrete Structures (MTH 375)
Mentor: Dr. Chin-Yi Jean Chan
4. Linear Algebra & Matrix Theory (MTH 223)
Mentor: Dr. Meera Mainkar

- **Graduate Research Assistant**

Research assistant under supervision of Dr. Sivaram Narayan.

- **Doctoral Fellowship**

Graduate Teaching Assistant   University of Jordan

Courses taught:
- Calculus I.
- Calculus II.
- Business Calculus.
- Principles of Statistics and Probability.

Graduate Research Assistant   University of Jordan

Duties:
- Monitored students during exams to maintain the integrity of the examinations.
- Assisted in the distribution and collection of exam material to the students.

PUBLICATIONS

- Matar, N., Mitchell, L.H. and Narayan, S.K., 2022. *On the minimum semidefinite rank of signed graphs.* Linear Algebra and its Applications, 642, pp.73-85.

- Khalil, R., & Matar, N. (2015). *Every strongly remotal subset in Banach spaces is a singleton.* British J. Math. and Comput. Sci, 5, 28-34.

PRESENTATIONS

- Presentation title *Introduction to signed graphs* at the 100th Meeting of the southern Section of Mathematical Association of America, (March 5th, 6th,12th, and 13th, 2021).

- Presentation title *Exploratory investigation of mathematical modeling of infectious diseases* at the annual Student Research and Creative Endeavors Exhibition (SRCEE), Central Michigan University, (April 2015).

CONFERENCES / MEETINGS ATTENDANCE

- AMS Sectional Meeting, University of Memphis, Memphis, Tennessee, October 17 - 18, 2015.

- International Conference on Statistical Distributions and Applications (ICOSDA), Mt. Pleasant, MI, October 10th – 12th, 2013.

WORKSHOPS

- Designing Effective Online Courses - July 20, 2020

- 6th Lake Michigan Workshop on Combinatorics and Graph Theory, Kalamazoo, MI, April 6-7, 2019.

• 4th Lake Michigan Workshop on Combinatorics and Graph Theory, Kalamazoo, MI, April 15-16, 2017.

• Problems and Recent Methods in Operator Theory Workshop, University of Memphis, Memphis, Tennessee, October 15 - 16, 2015.

• New Teaching Assistant Workshop, Department of Mathematics, Central Michigan University, Mt. Pleasant, MI, (August 2014).

PROFESSIONAL MEMBERSHIPS

• American Mathematical Society (AMS).

GRANTS/ AWARDS / HONORS/ SERVICES

• Partial travel supports for students and young researcher participants, Department of Mathematics, Western Michigan University to attend 6th Lake Michigan Workshop on Combinatorics and Graph Theory, Kalamazoo, MI, April 6-7, 2019.

• Partial travel supports for students and young researcher participants, Department of Mathematics, Western Michigan University to attend 4th Lake Michigan Workshop on Combinatorics and Graph Theory, Kalamazoo, MI, April 15-16, 2017.

• Math Graduate Student Presentation Grant, Department of Mathematics, Central Michigan University, Mt. Pleasant, MI, (2015).

• Graduate Assistant Conference Grant, Office of Research & Graduate Studies, Central Michigan University, Mt. Pleasant, MI, (2015).

• Partial travel supports for students and young researcher participants, Department of Mathematics, University of Memphis to attend Problems and Recent Methods in Operator Theory Workshop, University of Memphis, Memphis, Tennessee, October 15 - 16, 2015.

• AMS Sectional Meeting Travel Grant, American Mathematical Society Membership and Programs Department, 201 Charles Street Providence, RI 02904-2294 (Fall 2015).

• Graduate Teaching Assistantship, Central Michigan University, Department of Mathematics (Fall 2014 - Spring 2018).

• Graduate Research Assistantship, Central Michigan University (Spring 2017, Spring 2018, Summer 2016, 2017, and 2018).

• English Proficient Grant, English Language Institute, Central Michigan University (Spring 2014).

• Doctoral fellowship, Central Michigan University (Fall 2013, Spring 2014).

• Faculty Honor List, University of Jordan, Department of Mathematics, Amman, Jordan (Spring 2012-Spring 2013).

• Graduate Research Assistantship, Department of Mathematics, University of Jordan, Amman, Jordan (Fall 2009-Fall 2011).

• Highest GPA Award, College of Science, University of Jordan, Amman, Jordan (Spring 2009).