

# Dr. Ahlam Elashegh

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## Education

- Mathematics Department, College of Sciences, North Carolina State University, Raleigh, NC  
Scientific degree : Ph.D. in Applied Mathematics, Fall 2014  
Advisor: Dr. Mansoor Haider  
Dissertation Title: Mathematical and Computational Mixture Models for Cartilage Regeneration in Cell-Seeded Scaffolds.  
Qualifying Exams: Partial Differential Equations, Ordinary Differential Equations, and Theory of Matrices and Applications .
- Mathematics Department, College of Sciences, University of Tripoli ,Tripoli, Libya  
Scientific degree : MS. in Mathematics, Summer 2004
- Mathematics Department, College of Sciences, University of Tripoli ,Tripoli, Libya  
Scientific degree : B.S. in Mathematics Spring 1995

## Current Research Interests

Applied mathematics with applications in biomechanics and bioengineering includes: PDEs, boundary value and interface problems

## administrative positions held

- Quality assurance coordinator in Mathematics Department (9/2021 - 3/2022 ).

## Teaching Experience

- **Lecturer**  
Department of Mathematics, College of Sciences, University of Tripoli (Fall 2015 - Present)
  - ( Fall 2021), Ordinary differential equations II course. (college of science)
  - (Fall 2017 - spring 2021), Ordinary differential equations course. (College of Engineering)
  - (Spring 2017), Calculus II course.(College of Engineering)
  - ( Fall 2017), Ordinary differential equations I course, Analytic geometry course, Mechanics course (college of science)
  - (Fall 2015 - Spring 2017), Ordinary differential equations course. (College of Engineering)
- **Computer Consultant**  
Mathematics Multimedia Center at Department of Mathematics, NC State University  
Responsibilities: Help undergraduate students to do Maple and Matlab homework and Provide help for undergraduate students in all lower level mathematics courses
  - Fall 2014
  - Spring 2014
  - Fall 2013

- **Lecturer Assistant**

Department of Mathematics, NC State University

Responsibilities: Grading tests, holding office hours, and taking attendance

- (Fall 2011 - Spring 2012) , Finite Math course

- **Lecturer Assistant**

Department of Mathematics, University of Tripoli (Fall 2004 - Spring 2007)

Responsibilities: Lecturing, preparing syllabus and course materials, writing tests, and holding office hours. Class sizes ranged from 100 to 120

- Calculus I, Calculus II. (College of Sciences)
- Calculus II, Ordinary differential equations. (College of Engineering)

- **Teacher Assistant**

Department of Mathematics University of Tripoli (Fall 1999- spring 2004)

Responsibilities: Cover 4 to 6 hours weekly of lecture to help students with their homework for classes ranged from 100 to 120 students of calculus I, calculus II

- **High School Teacher**

High School (Fall 1995 - Spring 1999)

## Computer Skills

- Software: MATLAB, LaTeX, Maple, Microsoft Word, and PowerPoint

## Languages

- Arabic and English