

# Parisa Darbari Kozekanan

Friendly and experienced educator.

Knowledgeable in Mathematics and its applications in Computer Science.

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## EXPERIENCE

### Adjunct Professor

University of Downtown Huston, Houston, Tx

August 2021 - Present

Introduction to concept of programming languages (Fall 2021)

### Teaching Assistant

University of Central Florida, Orlando, FL

August 2019 - Present

Machine learning (Fall 2019, Spring 2020)

Object oriented programming-Java (Fall 2020)

Intro to C programming (Spring 2021)

Security in computing (Summer 2021)

Algorithm design and analysis (Fall 2021)

### Instructor of Record

University of Central Florida, Orlando, FL

August 2015 - 2019

Instructor of record for Calculus 1,2, Linear Algebra,  
College Algebra

### Private Tutor

August 2015 - Present

Graduate/Undergraduate courses in Computer Science and Math  
including : Python, C, Computational complexity, Algorithms,  
Calculus, Linear algebra, Statistics.

## EDUCATION

### Doctorate of Philosophy in Computer Science

University of Central Florida, Orlando, FL

Expected graduation date Spring 2022

### Masters of Science in Applied Mathematics

University of Central Florida, Orlando, FL 2018

### Master of Science in Pure Mathematics

Amirkabir University, Tehran, Iran 2012

### Bachelor of science in Mathematics

Amirkabir University, Tehran, Iran 2010

## SKILLS

### Programming Languages:

Python

C

Matlab

### Mathematics:

Linear Algebra

Optimization

Statistics

## RESEARCH AND PUBLICATIONS

Focus on spectral graph theory and quantum graph parameters.

*Spectral Lower Bounds for the Quantum Chromatic Number of a Graph – Part II.*  
Pawel Wocjan, Clive Elphick, Parisa Darbari.

The Electronic Journal of Combinatorics, Volume 27, Issue 4 (2020)

*A Fine-Grained Reduction from  $k$ -Sized Witness Detection to Its Unique Solution Promise Version.*

Parisa Darbari, Daniel Gibney, Gary Hoppenworth, Sharma V. Thankachan.

Pending Review at Information Processing Letters.

## LANGUAGES

Fluent in English and Farsi

## HOBBIES

Chess, Minesweeper