# MARCOS ORTIZ, PHD

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#### SUMMARY

I am a mathematician, researcher, scientist, and teacher. I love to explore technical questions and puzzles, and learn about new tools that can be applied to solving these problems. I have recently become particularly interested in developments in machine learning, and data science. I am currently seeking opportunities in these fields.

## **EDUCATION**

PhD, Mathematics	2015
University of Iowa Department of Mathematics	
Graduate Certificate in College Teaching	2014
University of Iowa Graduate College	
Masters, Mathematics	2012
University of Iowa Department of Mathematics	
B.Sc., Mathematics	2009
State University of New York at Buffalo Department of Mathematics	
B.A., Psychology	2004
University of North Carolina at Wilmington Department of Psychology	
EMPLOYMENT	

Instructor of Mathematics	2018 – present
Colorado Mesa University, Grand Junction, CO	
Visiting Assistant Professor	2015-2018
Grinnell College, Grinnell, IA	

July 2023

July 2023

June 2023

May 2023

## MACHINE LEARNING AND DATA SCIENCE

In help build my	<i>i</i> toundation in da	ata science. I ha	ave completed several	certifications:

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Machine Learning Specialization		

DeepLearning.AI & Stanford University via Coursera

## Unsupervised Learning, Recommenders, Reinforcement Learning

DeepLearning.AI & Stanford University via Coursera

**Advanced Learning Algorithms** 

DeepLearning.AI & Stanford University via Coursera

# Supervised Machine Learning: Regression and Classification

DeepLearning.AI & Stanford University via Coursera

Through the coursework accompanying these certificates I developed familiarity with many fundamental concepts and machine learning tools, including:

- Using popular machine learning libraries like NumPy, scikit-learn, Tensorflow, and keras
- · Building and training supervised machine learning models for prediction and binary classification tasks, including linear regression and logistic regression
- Supervised learning (multiple linear regression, logistic regression, neural networks, and decision trees)
- Unsupervised learning (clustering, dimensionality reduction, recommender systems),
- Best practices for artificial intelligence and machine learning innovation (evaluating and tuning models, taking a data-centric approach to improving performance)

Beyond these certificates I have practiced implementing these tools on publicly available data sets, as well as in completing freely available coursework on applications of machine learning.

#### **SKILLS**

Mathematics: Research, Topology, Contact Toplogy, Topological Data Analysis, Experimental Mathematics

Programming: python (most proficient), Mathematica, MATLAB, C/C++, java, SQL, R

Python Libraries: numpy, scipy, matplotlib, seaborn, pandas, tensorflow, keras, scikit-learn

Other: Technical writing, LATEX

Note: A more detailed CV and list of professional references are available upon request.