

MARCOS ORTIZ, PHD

• mortiz@coloradomesa.edu • [linkedin.com/in/passthemath](https://www.linkedin.com/in/passthemath) • github.com/marcoswastaken

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

Ph.D., Mathematics	2015
Univeristy of Iowa, Iowa City, IA	
Graduate Certificate in College Teaching	2014
Univeristy of Iowa, Iowa City, IA	
Masters, Mathematics	2012
Univeristy of Iowa, Iowa City, IA	
B.Sc., Mathematics	2009
State University of New York at Buffalo, Buffalo, NY	
B.A., Psychology	2004
University of North Carolina at Wilmington, Wilmington, NC	

EMPLOYMENT

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

MACHINE LEARNING AND DATA SCIENCE

To help build my foundation in data science, I have completed several certifications:

Machine Learning Specialization	July 2023
DeepLearning.AI & Stanford University via Coursera	
Unsupervised Learning, Recommenders, Reinforcement Learning	July 2023
DeepLearning.AI & Stanford University via Coursera	
Advanced Learning Algorithms	June 2023
DeepLearning.AI & Stanford University via Coursera	
Supervised Machine Learning: Regression and Classification	May 2023
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.

ADDITIONAL TECHNICAL SKILLS

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

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

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

Other: Technical writing, \LaTeX