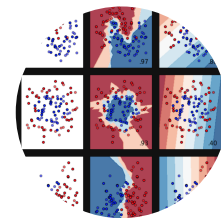


MICHAEL C RUGGIERO

Data Scientist

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EXPERIENCE

Mathematics Teacher

Harmony School of Fine Art

2012 – 2013

Houston, Texas

- Created an illustrated Latex "guide to algebra," inspiring children with uncommon mathematical ideas such as Prime Spirals.
- Helped create AMC math team covering topics such as number sense, proof theory.

Calculus Teacher

University of Shanghai: Cambridge Centre

2007 – 2009

Shanghai, China

- Created the first unified curriculum for the A level examinations and prepared Chinese students for overseas education.
- Worked with 350 Chinese students to create admission packages for Oxford and Cambridge.

PROJECTS

Kaggle

Heartbeat Sounds

2019

- Classified heart audio into one of four categories, locating S1 and S2 beats.

Rehoboth Nurseries

Automated Mushroom Farming

2019

- Building automated bunkers for organic production of *Pleurotus ostreatus*.

Lay's Potato Chips

Simulation of efficient chip packing.

2017

- Collaborated with Dr. Pawan Sinha from MIT to simulate chip packing.

Medford City Democratic Party

Canvassing Strategies

2016

- Built python/QGIS canvassing calendar to help Bernie Sanders Campaign.

ACHIEVEMENTS



Elected to School Committee

Used k-mean clustering to organize 2017 campaign canvassing.



Automated Farming

Using Arduino sensors, built 2 acre organic, blueberry farm.

STRENGTHS

Machine Learning Regression
Embedded Systems Forecasting
K-Nearest Neighbor Decision Trees
Tensor Flow Jupyter notebook
Business Intelligence Data Mining
Presentations Signal Processing

PROGRAMMING

Python ●●●●●

C++ ●●●●●

Scala ●●●●●

R ●●●●●

EDUCATION

Data Science Immersive

General Assembly

Feb 2019 – May 2019

MFA: English

Temple University

Sept 2010 – June 2012

B.Sc. Mathematics

Rhode Island College

Sept 1999 – June 2003