## MICHAEL C RUGGIERO

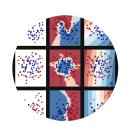
#### **Data Scientist**

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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**

#### Kaggel

#### **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 a QGIS canvassing calendar to help Bernie Sanders Campaign.

## **MOST PROUD OF**



#### **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	

## **EDUCATION**

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# 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**