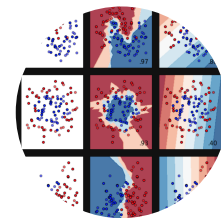# MICHAEL C RUGGIERO

Data Scientist

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🔗 www.mcruggiero.com   ⭘ github.com/mcruggiero

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   ●●●○○

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