MICHAEL C. RUGGIERO

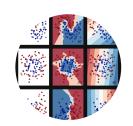
Data Scientist

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PROJECTS

Efficient Packing: C++, Python

- Collaborated with Dr. Sinha from MIT to simulate packing for Lay's Chips.
- Calculated moments of inertia and dynamic friction inside Blender engine.
- Scanned actual chips using 3D scanners and Mathematica visualizations.

Disaster Simulation: Python, Osmnx

- Identified road closures based on Twitter and MassDOT API.
- Simulated traffic based on four times of day with Google API.
- Generated disaster and optimized dispatch for police and rescue.

Natural Language Processing: Python, TF-IDF

- Scrapped 2000 partisan subreddits for essential information.
- Calculated relationship between emotion and participation.
- Built CountVectorizer pipeline for Logistic Regression analysis.

Campaign Planning: Python, scikit-learn

- Charted canvassing strategies with councilor Breanna Lungo-Koehn.
- Built interactive database for technical and non technical volunteers.
- Organized and scheduled optimal routes for multiple canvassers.

EXPERIENCE

Data Scientist

D-Day Data

🛗 2014 - Present

♥ Medford, Massachusetts

Mathematics Teacher

Harmony School of Fine Art

2012 - 2013

♥ Houston, Texas

Mathematics Department Head

University of Shanghai

≅ 2007 − 2009

Shanghai, China

Mathematics Teacher

Meg's English

2005 - 2007

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.

SKILLS

Programming NLP

Python Data mining C++ TF-IDF

Machine Learning Data Processing

Tensor Flow Organizing

Scikit-learn Value Imputation

Regression Visualization

ElasticNetCV Tableau Logistic Cufflinks

Clustering Presentation

KNN Technical Studies
Spectral Persuasion

EDUCATION

Data Science Immersive General Assembly

Heb 2019 - Present

MFA: English
Temple University

Sept 2010 - June 2012

B.Sc. Mathematics Rhode Island College

Sept 1999 - June 2003