

# Lucas Ramadan

## Data Scientist



### EXPERIENCE

**Play Bigger Advisors**  
Data Science Associate



12 Months

- Utilized CrunchBase API to collect data on over three hundred thousand companies in the technology industry
- Applied NLP techniques to classify similar companies based on descriptions, for data imputation and filtering
- Discovered optimal time range for technology companies to go public, now known as the 6-10 law
- Findings recently published in Harvard Business Review

**USDA ARS WRRC**  
Physical Science Technician



9 Months

- Designed and synthesized novel plasticizing agents to improve the thermal and mechanical properties of the biodegradable plastic, Polylactic-Acid (PLA)
- Collaborated with scientists outside of direct team, and worked under multiple bosses
- Research published in the Journal of Applied Polymer Science (DOI: 10.1002/app.42858)



### PROJECTS

**GalvanizeU**  
Student

- **Capstone**
  - Predict protein fold-states using Machine Learning
  - Deep, Convolutional and Recurrent Neural Networks
  - Achieved accuracy of 90%, better than state-of-the-art
- **Neural Networks, Probabilistic Graphical Models**
  - Sequence analysis of proteins, to predict structure
  - Feed-Forward Neural Networks, Hidden Markov Network
- **Natural Language Processing**
  - Classification of a song's genre, based on it's lyrics
- **Data Engineering**
  - Combined Twitter firehose and SFPD API data
  - Mock product: Help match witnesses with police officers



### EDUCATION

**GalvanizeU**  
*University of New Haven*

- M.S. in Data Science
- GPA: 4.13

**Whitman College**

- B.A. in Chemistry
- Academic Distinction

2016  
2015

2014  
2010



### SKILLS

**Python**

- Pandas, NumPy, Scikit-Learn
- Theano, Keras, SciPy
- StatsModels, PGMPy

**Machine Learning**

- Natural Language Processing
- Clustering (KNN, K-Means, DBSCAN)
- Neural Networks, Optimization

**Statistics**

- Significance, A/B Testing
- Probabilistic Graphical Models

**Data Engineering**

- SQL, NoSQL, Hadoop, Spark
- AWS S3, EC2, EMR

**Visualization**

- Matplotlib, Seaborn, Plotly, Tableau



### INTERESTS

**Outdoors**

- Backpacking, Soccer
- Snowboarding, Surfing

**Arts**

- Music, Drumming
- Stand-up Comedy



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