

# ADAM LIEBERMAN

## Machine Learning | Data Science

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### EXPERIENCE

#### Head of AI/ML for Innovation

##### Finastra

- Lead Machine Learning efforts for Finastra's Artificial Intelligence Innovation Laboratories in the United States, Budapest, London, Paris, and Israel focusing on Machine Learning and Deep Learning research and development pertaining to financial markets
- Work with our C level executives and product directors to strategize the use of artificial intelligence, build and maintain AI infrastructure, and develop partnerships with leading companies in the space
- Actively work with data science and software development teams for research and development

#### Head of Innovation

##### NCR

- Head of Machine Learning at NCR's Innovation Lab focusing on deep learning, machine learning, data science, and computer vision research and development
- Lead strategy for innovation in the payments industry with leadership teams while performing active development with data science teams to bring research and products to life
- Patented 20 patents on NCR's behalf pertaining to research projects

#### Co-Founder

##### Cappio

- A financial web application that helps average investors make smart investments in equities.
- Acquired by Simply Wall St.

#### Quantitative Developer

##### Lucena Research

- Developed Lucena's premier blackdog algorithmic trading strategy (+51.86% as of August. 6, 2018)
- Researched various statistical machine learning models, optimization of various objective functions, and varying re-balancing periods for construction of an optimal portfolio with constrained ETFs

#### Quantitative Developer

##### Janus Capital Group

- On Nobel Prize Winner Myron Scholes' asset allocation team
- Focused on machine learning and natural language processing for trade signal generation
- Performed research on gaussian copulas for portfolio tail loss

### EDUCATION

#### M.S. in Computer Science

##### Georgia Institute of Technology

GPA: 4.00

#### B.S. in Applied Mathematics

##### Georgia Institute of Technology

GPA: 3.70

### STRENGTHS

#### Skills

- Deep Learning
- Machine Learning
- Data Science
- Strategy
- Public Speaking

#### Programming

- Python
- Matlab
- Javascript
- C#
- Java
- HTML
- CSS
- JQuery

#### Libraries

- Keras
- Sklearn
- TensorFlow
- PyTorch
- OpenCV
- NLTK
- Numpy
- Pandas
- Flask
- Matplotlib

### WRITTEN WORKS

- Deep Learning on Clinical Notes
- Theory and Application of Generative Adversarial Networks
- Activation Functions in Deep Learning
- Regularization in Deep Learning Models
- Bias-Variance Trade-off
- Introduction to Machine Learning
- Clustering short-text documents
- Dynamic Time Warping
- Building a quantitative trading strategy

### PROJECTS

- Deep Convolutional Generative Adversarial Networks for Synthetic Facial Generation
- Crafte: A Craft Beer Recommendation Web Application
- Quantum Finance: Machine learning and interactive visualization for portfolios
- PyQuant: A class for quantitative portfolio metrics