

# Kevin Lyons

kevin@klscientific.com | H: 518.280.1772 | M: 617.501.2227  
 LinkedIn: kevin-lyons-mlds

## EDUCATION

### UNIVERSITY OF ROCHESTER

#### PHD IN PHYSICS

Spring 2017 | Rochester, NY

#### MS IN PHYSICS

Spring 2014 | Rochester, NY

### STONY BROOK UNIVERSITY

#### BS IN PHYSICS

#### BS IN ASTRONOMY

Spring 2008 | Stony Brook, NY

## SKILLS

### PROGRAMMING

Python • SQL • Mathematica

### PREVIOUSLY USED:

Go • Rust • C++ • Javascript

### MACHINE LEARNING:

PyTorch • OpenAI Gym • Python  
scientific stack

### DEVOPS TOOLS

AWS • Docker • Kubernetes

CICD pipelines • Git • Linux

### DATABASES:

Postgres • MySQL • Elasticsearch

Redis • ArangoDB

## EXPERIENCE

### RHO AI | SENIOR DATA SCIENTIST

2017 - Present

- Successfully implemented many machine learning algorithms in production systems.
  - Used current academic research to create machine learning systems with state of the art performance.
  - Implemented systems to make inferences on natural language, image, graph, and tabular data.
- Led technical development on projects including general software, cloud deployments, and machine learning algorithms.

### DRS TECHNOLOGIES | CONSULTING SCIENTIST

2017 - Present

- Aided in the design and analysis of integrated (on-chip) optical devices to perform ultra-precise measurements.
- Extended the designs to precision range finding, gravimetry, and inertial navigation.
- Validated analysis with numerical simulations of different chip configurations.

### RTI INTERNATIONAL | CONSULTING SCIENTIST

2012 - 2016

- Performed an intensive technical and financial analysis to aid in the development of a radioisotope production system.
  - Successfully optimized the device and helped verify technical performance with simulations in C++.
  - Combined the technical and financial analysis to demonstrate a lower cost of the final product compared to competing technologies.
- Prepared documents and presentations for venture capital and grant proposals.

## LECTURES

### COLUMBIA UNIVERSITY | GUEST LECTURER

2019

- Two three-hour lectures given in the Spring 2019 semester to both undergraduate and graduate engineering students.
  - Deep learning: an overview of modern state of the art approaches to different supervised learning problems.
  - Reinforcement learning: an introduction to learning how to perform sequential tasks, with an emphasis on physical systems.