

Kevin Lyons

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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 - 2019

- 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.

LECTURES

COLUMBIA UNIVERSITY | GUEST LECTURER

2019-2020

- 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.
 - Natural language processing: Algorithms which can “read” natural language, and create summary or structured data from unstructured text.