

# Yunlong Jiao

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## Machine Learning Engineer

📍 London, UK (No Sponsorship Needed)

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## Professional Summary

Results-driven Machine Learning Engineer with over 5 years of experience in developing and deploying advanced AI solutions. Currently enhancing user experiences at Amazon Alexa by building sophisticated ML models and leading cross-functional projects. Proficient in Python and deep learning frameworks, with a strong foundation in model development and performance evaluation. Passionate about delivering impactful AI-powered solutions in the health-tech sector.

## Education

### Doctor of Philosophy

Centre for Computational Biology

Paris Sciences et Lettres – PSL Research University, Paris, France

2013 – 2017

### Master of Science (Mention Très Bien)

Department of Mathematics

University of Paris-Saclay, Orsay, France

2012 – 2013

### Bachelor of Science (First Class Honours)

Department of Mathematics

University of Science & Technology of China, Hefei, China

2008 – 2012

## Work Experience

### Machine Learning Scientist

Amazon, London, UK

Nov 2019 – Present

- **Key Skills:** Natural Language Processing, Large Language Models, ML Pipelines, Cloud Computing (AWS)
- Leading research on bias mitigation technologies in NLP to enhance fairness while preserving user privacy, resulting in improved user satisfaction scores by 20%.
- Developing and deploying ML solutions to create unified user experiences for Alexa Shopping, increasing user engagement by 15%.

- Collaborating with cross-functional teams to oversee prototypes to production, successfully launching 3 major features in a year.
- Coaching and mentoring junior team members, contributing to a 30% increase in team productivity.

### **Postdoctoral Research Scientist**

University of Oxford, Oxford, UK

Nov 2017 – Oct 2019

- **Key Skills:** Time Series Forecasting, Multi-modality
- Led a multi-organizational project developing novel methods for longitudinal modeling of complex diseases, improving predictive accuracy by 25%.
- Supervised master's theses, fostering research skills in students and enhancing departmental output in statistics.

### **Doctoral Researcher**

PSL Research University, Paris, France

Sep 2013 – Sep 2017

- **Key Skills:** Representation Learning, Graph Learning
- Developed innovative ML methods that improved the prediction of breast cancer survival using genetic data, leading to 2 significant publications in top-tier conferences.
- Participated in the DREAM Toxicogenetics Challenge, placing 2nd and advancing computational methods in biology.

### **Data Scientist Intern**

Roche Diagnostics GmbH, Penzberg, Germany

Apr 2015 – Jun 2015

- **Key Skills:** Feature Engineering, Large-Scale Data Processing
- Proposed a data pipeline to process large-scale unstructured machinery performance data, resulting in a predictive model that significantly reduced failure states.
- Contributed to strengthening customer trust, with the solution leading to a patented technology by Roche.

## **Technical Skills**

- **Programming:** Python (NumPy, Pandas, Scikit-learn), TensorFlow, R, C/C++
- **Big Data:** Apache Spark, Cloud Computing (AWS, ECS, EKS)
- **DevOps:** Bash, Git, Docker, CI/CD

## Professional Skills

- **Communication:** Experienced speaker at international conferences and workshops, confident in presenting project ideas to stakeholders.
- **Mentoring:** Skilled in coaching and mentoring junior team members and interns.
- **Project Management:** Effective tech lead for research projects, knowledgeable in Agile methodologies.

## Languages

- Chinese (native), English (bilingual), Spanish (conversational), French (reading)