

# HARRY EMERIC

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## EDUCATION

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**Stanford University** Stanford, CA  
*MS, Statistics (Data Science track)* Sep 2018 – Jun 2020 (expected)

- Relevant Coursework: Statistical Inference, Modelling and Learning; Machine Learning, Deep Learning, Computer Vision, Software Engineering, Algorithms, Optimization

**University of Warwick** Warwickshire, UK  
*BSc, Mathematics and Economics* Sep 2005 – May 2008

- First class honours, winner of examiners' prize for best overall grade out of ~200 people

## EMPLOYMENT

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**Stanford University** Stanford, CA  
**Course Assistant; ME300A: Linear Algebra w/ Application to Engineering** Sep 2019 – Present

- Instructing core Linear Algebra class, running workshops and discussion sections

**Adobe** San Jose, CA  
**Data Scientist Intern; Data Science New Products (DSNP)** Jun 2019 – Sep 2019

- Used unsupervised learning to segment Photoshop users by intent and identify difficult to use features. Identified 2 features and 2 tutorial pages with poor success rates to communicate with the product team as pain points
- Worked with pyspark.sql, pyspark.ml and scikit-learn to create a preprocessing pipeline and train clustering models, and used plotly to produce custom visualizations

**Bank of America Merrill Lynch** New York, NY; London, UK  
**Vice President; ETF Trader, Global Equities** Jun 2008 – Mar 2017

- Built pricing, trading and risk management tools and techniques across various financial instruments; responsible for books totaling \$10m+ of revenue
- New products lead; studied detailed product attributes to exploit mispricings and create profitable opportunities
- Consistently developed connectivity across time zones and asset classes; negotiated multiple stakeholders to create a process to trade bonds; became the first person in the company to trade bonds on the equities floor
- Co-managed first ever 24hr ETF trading book, strong focus on communicating risk and strategy across regions, and on operational controls

## CERTIFICATIONS AND PROJECTS

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- Deep Learning class project used CNNs to automatically detect brain aneurysms from CTA scans, in collaboration with the Stanford Medical School
- Computer Vision project created custom architecture for object detection with half the parameters and similar loss metrics to SSD
- Active Kagglers, one Notebook "Feature Engineering on the Titanic" has ~5,000 views

## SKILLS AND TECHNOLOGIES

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- Programming:* Python, R, SQL, C++; pytorch, pyspark
- Languages:* Spanish, Portuguese (conversational)

## PERSONAL INTERESTS

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- World traveler: visited 50+ countries; started off learning R in a co-working space in Bali
- Sport: winner of charity white collar boxing match, currently training for first marathon