

Matt Gleeson

Work Experience

WashU REU Program - Big Data Analytics / NSF-Funded Researcher

MAY 2019 – MARCH 2020, ST. LOUIS

Conducting research at the intersection of Bayesian machine learning and deep learning in Professor Roman Garnett's lab. My research concerns improving policies for active search with deep learning techniques such as grammar variational autoencoders and deep reinforcement learning, as well as Bayesian optimization techniques. Continuing research via an independent study during the school year. A sample of my work can be found at:

<https://github.com/MatthewGleeson/ActiveSearch>

PULSE / Co-founder

JULY 2020 – PRESENT, BOSTON

Pulse is a voter engagement and big data analysis tool for digital politics & activism. As of September 2020, we became an MIT Sandbox-funded company. My responsibilities within Pulse include R&D for our data analysis and data visualization products as well as managing our interns. More info at:

<https://pulseboard.co>

Eclipse Ventures / Software Engineering Intern

MAY 2018 – MAY 2019, PALO ALTO

Singlehandedly designed, developed and deployed a complex internal website for Q/A discussions, document hosting & sharing, and contact management. Coded website in HTML, JavaScript and CSS, using Express.js and integrating various AWS services including DynamoDB, Cognito, S3, CodeCommit and EC2 to provide scalability. Deployed Docker containers for venture deal logging & analysis.

Ryan Kastner Research Group (UCSD) / Research Assistant

2017, SAN DIEGO

Conducted research in the Dept. of Computer Science and Engineering alongside PhD student Jeremy Blackstone on developing hardware-based fault attacks on hardware implementations of the Advanced Encryption Standard (AES), particularly differential fault analysis (DFA) techniques.

Activities & Conferences

Bayesian Machine Learning(CSE515) / Teaching Assistant @ WashU, Fall 2019

Machine Learning(CSE517) / Teaching Assistant @ WashU, Spring 2020

Archhacks / Executive Board Member, 2016-201

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<https://github.com/MatthewGleeson>

matthewgleeson.github.io/

Education

University College London

2020-2021, LONDON

MSc Machine Learning

GRE Scores: Quantitative 169/170, Verbal 165/170, Writing 4/6

Washington University in St. Louis

2016-2020, ST. LOUIS

BS Computer Science; BS Mathematics

GPA: 3.53/4.0

SAT Score: 2350/2400

Skills

General Purpose: Python • Java • C++
Bash Scripting • JavaScript

Web Development: HTML • CSS • PHP
SQL • Node.js • AWS

Data Analysis: Matlab • Apache Pig
Hive • Impala • Hadoop MapReduce

Relevant Coursework

UCL

- Supervised Learning
- Approximate Inference and Learning in Probabilistic Models
- Probabilistic and Unsupervised Learning
- Introduction to Deep Learning
- Statistical Natural Language Processing
- Reinforcement Learning
- Multi-agent Artificial Intelligence
- Machine Learning Seminar

WASHU

- Bayesian Methods in Machine Learning(CSE515)
- Advanced Machine Learning(CSE519)
- Machine Learning(CSE517)
- Computer Vision(CSE559)
- Introduction to Machine Learning(CSE417)
- Introduction to Artificial Intelligence(CSE511)