

## Haydn Cheong

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### Education

**The University of Edinburgh** 2018-2019

**MSc Artificial Intelligence – Expect: Merit**

Core modules:

- Machine Learning and Pattern Recognition
- Machine Translation
- Machine Learning Practical
- Reinforcement Learning
- Natural Language Processing
- Data Mining and Exploration

**The University of Sheffield** 2015-2018

**BEng Electronic and Electrical Engineering – Achieved 1<sup>st</sup> Class Honours**

Core modules:

- Semiconductor Electronics
- Analogue and Digital Electronics
- FPGA Architecture Design
- Feedback System Design
- Engineering Software Design
- Microcontroller Programming

Received the “Engineering International Scholarships” 2016-2018

Awarded “The Most Viable Business Proposition” in UASC – Accredited by IMechE. July 2016

### Related projects

**The University of Edinburgh**

- MSc dissertation - **Application of Prospect Theory and Regret Theory on the Development of a Consensus Support System** June – Aug 2019
  - A WeChat Mini-Program has been developed to collect, visualise and calculate the preferences and opinions of a group of decision makers and support consensus.
  - UML, MVC design pattern, functional testing and GUI testing, JavaScript, WXML, WXSS were used for implementation. Quasi-experiment has been conducted and evaluated qualitatively and quantitatively. Decision theory has been incorporated in the design.
- Machine Learning Practical – **Prediction of Stock Market Index** Feb – Apr 2019
  - Ten technical indicators have been used in a deep neural network as the baseline. Sentiment analysis based on news headlines, google trend and attention mechanism were incorporated to determine their effects on the predictive power of the model.

**The University of Sheffield**

- **Characterisation of AIAsSb APDs in Communication Systems**
  - An avalanche photo-detector with material AIAsSb for photon absorption layer was fabricated. Characterized by the sensitivity, IV curve, CV curve and frequency range.

- **Sheffield Industrial Project Scheme (SHIPS) project** Oct – Dec 2017
  - We delivered solutions to the Advanced Manufacturing Research Centre (AMRC) representatives. The solutions aim to monitor the temperature and pressure of a composite material in real-time within a hot-press machine.

## Work Experience

- **Exchange Student – Tertiary Education Service Office of Macau** 2017 (Summer)
  - Led a Beijing exchange program to serve 20 students from Macau for 4 weeks.
  - Promoted the culture of Macau to the local students at the Beijing Language and Culture University.
- **Administrator – Financial Services Bureau of Macau** 2016 (Summer)
  - Supervised the progress of other interns, organised the confidential documents.
  - Awarded as the best candidate out of 30 candidates, for taking the responsibility as a representative and communicator.

## Side Project

- **Rap lyrics generator using bi-directional LSTMs** May - June 2019
  - Web crawling and scraping were used to extract 1 Million lines of lyrics from LyricsMaster and LyricsGenius. With aggregation following standardization.
  - Data cleaning was done by using cross-entropy, word frequency and RegEx, etc. Data is then feed into a Seq2Seq model to learn. BERT can potentially be used for future work.

## Skills

- **Teamwork** – Investigated and presented engineering and computer science related projects in a multicultural and multidisciplinary team. Accumulated knowledge in project management, human resource, law and finance throughout my course.
- **Languages** - Fluent in English and Mandarin; Native in Cantonese.
  - Obtained German CERF level B1 as a class representative in 2016-2017.
- **IT skills** – C, Python, JavaScript, HTML, CSS, LabVIEW (certified associate developer since Dec 2017), MATLAB, Verilog (HDL).

## Extracurricular

- Active member of Edintelligence and CompSoc. 2018 – 2019
  - Attendance of Huawei seminar, Eric McAfee's seminar, AIBE summit 2019.
- Co-founder, secretary and writer of the Sheffield Artificial Intelligence Society. 2016 – 2019
  - Organise weekly seminar and meeting, regular NAO robot session and publicity of the society activities.
- Event Planner and Executive Secretary of Entrepreneurs Society. 2016 – 2017
  - Organized seminar talks on business management, start-up stories and social events.

**Reference - Available on request**