

# Yang Wang

Apartment 619 Portobello House, 3 Portobello St, Sheffield S1 4AT

✉ ywang623@sheffield.ac.uk    ☎ +44 7840157260

## Education

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### University of Sheffield

*MSc Computer Science with Speech and Language Processing*

**Sheffield, UK**

*Oct 2020 - Sept 2021*

### National Chung Hsing University

*BSc Applied Mathematics*

**Taichung, TW**

*Sept 2014 - June 2018*

## Engineering Experience

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### VoiceBase Centre

*Research Intern*

**Sheffield, UK**

*May 2021 - Present*

- Performed speech separation task using neural networks with PyTorch, and used it as a module in the mini-framework environment.
- Conducted experiments in an organised and repeatable manner, with results that could be tracked back.

### KKBOX Group

*Software Quality Assurance Assistant Engineer*

**Taipei, TW**

*Dec 2018 - Aug 2019*

- Constructed a polarity detection classifier for UtaPass music streaming app, and conducted a public workshop in the office about applications of sentiment analysis.
- Deployed a lyrics-based music genre classifier with Streamlit API to Heroku, using statistical and machine learning techniques.
- Created collaborative testing documentation using Atlassian Confluence, Jira, and TestRail.

## Technical Projects

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### Dissertation Project

*Sept 2020 - Present*

- Built a model which makes informed buy-and-sell decisions with respect to cryptocurrency trading by leveraging streaming news-feed data as well as pricing data to inform its prediction.
- Constructed a pipeline that combines trading techniques with the CSCV backtesting framework to fit a model successfully while avoiding overfitting.

### Sheffield Startup Summer Project

*May 2021 - July 2021*

- Implemented Google browser extension to display a crowd sourced sustainability score for products.
- Designed a scoring system using the Laplace's rule of succession to reduce certain forms of inductive inference.

### Cinnamon AI Bootcamp Project

*July 2020 - Aug 2020*

- Won 1st place with delivering strong final pitch in product launch against 3 teams.
- Contributed to an open-source asset allocation model called MoneyNet by integrating Black-Litterman portfolio model and BERT language model.

### MWML Incubator Project

*June 2020 - Sept 2020*

- Organised a 4-person team as a team leader to deployed an NLP application to generate investment insight in the forex domain to AWS EC2.
- Designed a machine learning model pipeline to predicting buy-and-sell signal of forex by making use of trending topics from Twitter with a team from different countries.

## Additional

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- Relevant Coursework: Machine Learning and Adaptive Intelligence, Natural Language Processing, Text Processing, Mathematical Programming, Numerical Analysis, Game Theory, Stock Investment Simulation
- Programming Languages: Python, R, Git, HTML, CSS, Matlab, PureData
- Personal Website: <https://penguinwang96825.github.io/Hexo-Blog/>