

# SHIXIANG WANG

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## EDUCATION

**CityU, Hong Kong**      **MSc in Computer Science**      **GPA: 3.75 / 4.30**      **2021.08 – Now**

*With distinction(expected)*

*Course:* Machine Learning A&B, Nature Language Processing, Data Mining and Data Warehousing, Artificial Intelligence

**POSTECH, Korea**      **Department of Mathematics**      **Exchange Student**      **2019.08 – 2019.12**

*Course:* Data Science, Actuarial Mathematics, English Writing

**HIT, China**      **BSc in Information and Computing**      **GPA: 86.4 / 100**      **2016.09 – 2020.06**

*Rank 1.0% in National College Entrance Examination*

*Course:* Probability and Statistics(96), Numerical Methods of PDE(96), Numerical Analysis(92), Operations Research(100), Information Science(96), Preliminary Functional Analysis(98), Complex Variable(97), Topology(93), C Language(90)

*IELTS: Overall 7.0 (listening 7.0, reading 8.0, writing 7.0, speaking 6.5)*

## RESEARCH EXPERIENCE

**An Improved Gradient-based Meta-Learning Algorithm for Large Scale Drug Discovery**      **2022.01-2022.08**

*Postgraduate researcher supervised by Dr.Ying WEI*

- Proposed a Metadrag algorithm and tested it on a new drug discovery benchmark.
- Designed MetaPES training strategy to alleviate the overfitting in meta learning without increasing training time.
- Used statistic information from the training data to further improve the algorithm's performance.

**Question Generation: Finetuned on Pretrained with QA-pair Evaluation**      **2022.02-2022.04**

*Postgraduate researcher supervised by Dr.Linqi SONG*

- Research on answer guided question generation using pretrained models including BART, GPT 2, and T5.
- Designed an algorithm that finetunes a BERT with NSP-head on the SQUAD dataset.
- The result showed noticeable improvement on evaluation metrics including BLEU, ROUGE, and METEOR.

## PROJECT EXPERIENCE

**Tweet Sentiment Analysis**      **2021.09**

*Course Kaggle Competition, supervised by prof.Antoni Bert CHAN*

- Predicted the sentiment of Tweets about four technology companies.
- Analyzed tweet features, removed special symbols, common words, and lemmatization. Used bow and tf-idf to extract dictionaries from the cleaned data and vectorize the training text.
- Tested various statistical machine learning algorithms like naive bayes, svm, adaboost, random forest.

## INTERNSHIP/WORK

**Cambricon, Beijing**      **Algorithm Research Internship**      **2022.05 – 2022.07**

*Top AI chip company in China*

- Research in monocular 3d object detection supervised by Dr.Xishan ZHANG.
- Learned monocular 3d object detection algorithm and reproduced the non-open source code.
- Designed experiments to boost algorithms' performance.

**JD.com, Beijing**      **Software Development Engineer**      **2020.09 – 2021.07**

*Top 50 in Fortune Global 500*

- Responsible for order receiving system requirements agile development of JD Logistics.
- Over 20,000 lines of code during work.
- Excellent employee of the team in 2020.

## SCHOLARSHIP/AWARDS

Renmin scholarship(Top 10%) ×5, Outstanding student(Top 10%), First prize in college physics competition(Top 9%)