

# Yushuo Wang Lester

yushuowang@gmail.com | <https://lesliewongcv.github.io/>

18 Spottiswoode Park Rd, Singapore 088642



## EDUCATION

### Jilin University (985, 211)

Sep.2016 – Sep.2020

Bachelor - Information Engineering GPA: 86.7/100

### Nanyang Technological University

Jan.2021 – Aug.2022

MSc - Computer Control & Automation

Research Area: NLP, Image/Text Disentanglement, Continual Learning

## EXPERIENCE

### Data Scientist: OCBC Group Data Office, Singapore

June.2022 – present

- Deployed a Vision Language Model and served it as API on Ray cluster, used for multiple products:
  - a. Invoice data extraction.
  - b. Trading term sheet extraction.
  - c. ID info extraction.
- Built a web application for Group Legal and Compliance, using NER model (bert-base-uncased) to label capitalized/defined/cross-reference terms from legal documents.
- Deployed MPNet to classifying SWIFT transfer message with contrastive learning, served it as API and integrated with PEGA system.
- Integrated MiniLM into trading process - boosting extraction and comparison process.
- Built a Python package for reconciliation process, greatly shortening the effort for onboarding new products/trades.

### Algorithm Engineer Intern: A\*STAR, I2R, Singapore

Jun.2021 – June.2022

- Use the output's variances from the Bayesian Neural Network to select the samples that require rehearsal for the model to improve the performance of the model.

Visiting student: UNSW, University of Manchester, Sungkyunkwan University, University of Miami.

## PROJECTS

### Researcher: Alibaba's Tianchi NER Challenge Top 0.5%

May.2021

- Based on pretrained BERT, use CRF for output correction, classify and separate words in address sentences.

### Researcher: Image/Text Style Transfer (Disentanglement), College of William and Mary

Apr.2021

- Based on VAE, using mutual information and PCA to calculate and standardize the hidden variable encoding to achieve image/sentence feature disentanglement.

### Researcher: SAR and Optical Image Registration using Deep Neural Network

Oct.2020

- Designed a RPN framework for detecting the approximate area of the registration.
- Use Siamese Network to locate the accurate coordinates of the registration.

### Researcher: 2<sup>nd</sup> Large-scale Video Object Segmentation Challenge, ICCV2019

Jul.2019

- The accuracy rate reached 69% on the data set released by the 2019 YouTube-VOS Challenge.
- The new algorithm was included in the ICCV2019 YouTube-VOS Challenge and won the 9th place.

**Research Assistant: Cybersecurity Workshop, University of Miami**

Jul.2018 - Sep.2018

- Implement Gradient Descent, BN, Conv2d and other algorithms from basic commands.
- Based on Python, using Keras to build a network for identifying benign/malignant lung nodule tumors.

**ACTIVITIES**

---

2018 Summer Research Program, University of Miami	Jun.2019
Mathematical Contest in Modelling (MCM)	Dec.2018
International Conference on Computer Vision, Seoul, South Korea	Nov.2019

**HONORS/AWARDAS**

---

The Scholarship of Modeling Competition.	Jun.2019
9 <sup>th</sup> Place Award in the 2 <sup>nd</sup> Large-scale Video Object Segmentation Challenge, ICCV 2019	Jul.2019
Individual Scholarship, Excellent Student of the College	Nov.2019
Individual Scholarship, Excellent Student of the College	Mar.2020
Excellent Student of the University from 2019-2020	Mar.2020
Member of MLDA at NTU	Apr.2021
Sub-Committee member at EEE-GSC, NTU	Oct.2021

**SKILLS**

---

**Programming Language: Python, Java**

I studied and exchanged in 5 countries, assisted in establishing cooperative projects between colleges and laboratories, I have good English/Chinese communication skills and respect all cultures.