

# HANG (FRANCIS) YU

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## EDUCATION

<b>Master of Science</b>   <i>Computer Science</i> University of Illinois at Urbana-Champaign	Aug. 2022 – Present (expected May. 2024) Urbana, IL
<b>Master of Science</b>   <i>Civil Engineering</i> University of Illinois at Urbana-Champaign	Aug. 2019 – Dec. 2021 Urbana, IL
<b>Bachelor of Engineering</b>   <i>Civil Engineering</i> Zhejiang University	Sep. 2016 – Jun. 2020 Hangzhou, China

## WORK EXPERIENCE

<b>CS412 Intro. to Data Mining Graduate Teaching Assistant</b> University of Illinois at Urbana-Champaign <ul style="list-style-type: none"><li>Holding office hour for CS412: Intro. to Data Mining</li><li>Homework and exam questions designing, checking and grading</li><li>Course organization assistance and course forum question answering</li></ul>	Aug. 2022 – Present Champaign, IL
<b>Software Development Engineer Intern</b> Huawei Technologies Co., Ltd. <ul style="list-style-type: none"><li>Learned Kubernetes for centralized and distributed storage system</li><li>Troubleshooted and fixed the bugs for storage system with container code</li></ul>	Apr. 2022 – Aug. 2022 Hangzhou, China
<b>CS446 Machine Learning Course Assistant</b> University of Illinois at Urbana-Champaign <ul style="list-style-type: none"><li>Campuswire question answering and emergence office hour attending</li><li>Homework and exam questions sanity checking and grading</li></ul>	Sep. 2021 – Dec. 2021 Champaign, IL
<b>Deep Learning Engineer Intern</b> SimBioSys, Inc. <ul style="list-style-type: none"><li>Developing and debugging 3D breast MRI segmentation model</li><li>Production segmentation model validation for FDA submission</li></ul>	Feb. 2021 – May. 2021 Champaign, IL

## PROJECTS AND RESEARCH

<b>Few-shot Vision-Language Transfer Learning</b>   <i>Publication</i> Paper "Rethinking Task Sampling for Few-shot Vision-Language Transfer Learning" Accepted by COLING 2022 (MMMPiE Workshop), [PDF][CODE] Authors: Zhenhailong Wang, <b>Hang Yu</b> , Manling Li, Han Zhao, Heng Ji	Aug/2021 - Jan/2022
<b>Towards Ubiquitous Image Data Bias</b>   <i>Pytorch</i> Paper "Long-tailed Recognition Done Right?" submitted to CVPR 2022 Authors: <b>Hang Yu</b> , Yuxiong Wang, Shu Kong Long-tail recognition protocol study	May/2021 - Nov/2021
<b>Survey on Query-based Text Summarization</b> CS597 Independent Study supervised by Prof. Jiawei Han Reproduce State-of-the-Art neural text summarization model results Literature Review for Query-Based Text Summarization and Generic Text Summarization	Sep/2020 - Jan/2021
<b>Brain MRI Segmentation Competition UNet 3D Implementation</b>   <i>Pytorch</i> CS446 course project ranking on Kaggle, 7/82 Modified original UNet 3D and outperformed the strongest baseline (75%) For more details: <a href="https://www.kaggle.com/c/cs446ece449-fa20/leaderboard">https://www.kaggle.com/c/cs446ece449-fa20/leaderboard</a>	Nov/2020 - Dec/2020

<b>Analysis of Electric Vehicle Travel Patterns Using LPR   <i>Python</i></b>	Nov/2019 - Jun/2020
Supervised by Prof. Sheng Jin at College of Civil Engineering & Architecture at ZJU	
Applied K-means algorithm on license plate recognition (LPR) data for vehicle classification	
Pattern extraction by spatial and temporal taxonomy	
<b>GRS Emission Prediction of Alkali- Activated Materials   <i>MATLAB</i></b>	Jul/2019 - Aug/2019
Supervised by Prof. Sabbie Miller at Department of CEE at UC Davis	
Predicted overall GRS emissions of different Alkali-Activated material combinations	
Used MATLAB for simulation and results visualization	

## HONORS AND AWARDS

<b>Outstanding Course Assistant Award</b>	2021
Recognition by faculties as an outstanding course assistant <a href="#">[link]</a>	
<b>Outstanding Undergraduate</b>	2020
Recognition for top 20% of students in academics at Zhejiang University	
<b>Certificate of Excellent Engineering Training Program</b>	2020
Special Certificate for excellent academic performance engineering students	
<b>Scholarship for Excellence in Research and Innovation Award</b>	2019
Merit based scholarship to support students leading in innovative research and competitions	
<b>ASCE MidPac Regional Geowall Competition Championship</b>	2019
Competition award by America Society of Civil Engineers	
<b>Certificate for Excellent Student Leader</b>	2019
Certificate for students who make great contribution in leading the clubs or organizations on campus	
<b>Certificate for Excellent Student</b>	2018, 2019
Certificate for top 20% students who maintain excellent comprehensive qualities	
<b>Third-Class Scholarship for Outstanding Student Award</b>	2018, 2017
Scholarship for top 20% students who maintain excellent comprehensive qualities	
<b>Third-Class Scholarship for Outstanding Merits Award</b>	2018, 2017
Merit based scholarship to support students who maintain top 20% on academic performance	

## LEADERSHIP & VOLUNTEERING

<b>Host of 2018 Spring WCA Rubik's Cube Open, Hangzhou, China</b>	Mar/2018
Supported and supervised by WCA (World Cube Association) delegates	
Organized one grand competition officially acknowledged by WCA	
200+ domestic and international participants	
<b>Host of 2017 Winter WCA Fewest Move Asian League Hangzhou Branch, China</b>	Dec/2017
Supported and supervised by WCA (World Cube Association) delegates	
The goal was to find the fewest moves to resolve a given scrambled cube	
25 moves were identified as the best solution in the competition	
<b>Volunteer in Elementary School, Hangzhou</b>	Oct/2016 – Jun/2019
Teach Rubik's cube every Fri. afternoon at Yucai Education Group No.1 Experimental School	
Organize ZJU magic show and magic cube club members to participate in the volunteer job	

## SKILLS

**Languages:** Chinese (Native), English (Proficient), Spanish (Beginner)  
**Programming:** Python, Go, C++, C, Linux shell, MATLAB  
**Major Tools:** Pytorch, Numpy, Pandas, Anaconda, GitHub, GitLab, Colab  
**Document Creation:** LaTeX, Markdown, Microsoft Office Suite