

# YUWEI HSU

## CURRICULUM VITAE

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### Education

2023—2024

#### University of Chicago

- Master of Science in Applied Data Science
- GPA: 3.8 / 4.0

2020—2023

#### University of British Columbia

- Master of Education in Special Education (High Ability)
- GPA: 3.9 / 4.0

2015—2019

#### National Changhua University of Education

- Bachelor of Education
- GPA: 3.6 / 4.0

## Professional Experience

2024	<b>Capstone (UChicago)</b> <ul style="list-style-type: none"> <li>Project title: Loan Default Prediction</li> </ul> <b>Natural Language Processing and Cognitive Computing (UChicago)</b> <ul style="list-style-type: none"> <li>Project title: Food Safety Prediction, News Articles and Tweets Similarity Analysis, Company Analysis: Named Entity Recognition and Topic Modeling</li> </ul> <b>Machine Learning &amp; Deep Learning (UChicago)</b> <ul style="list-style-type: none"> <li>Project title: Fake News Detection, Transformer: Language Identification and Classification, PyTorch: CNN and LSTM Date Translatio, Hugging Face: Translation Pipelines Analysis</li> </ul>
2023	<b>Data Engineering Platforms for Analytics (UChicago)</b> <ul style="list-style-type: none"> <li>Project title: Inventory Analysis and Management</li> </ul> <b>Statistical Analysis (UChicago)</b> <ul style="list-style-type: none"> <li>Project title: Housing Price Analysis</li> </ul>
2022	<b>Statistical Analysis in Research with R (UBC)</b> <ul style="list-style-type: none"> <li>Project title: Growth Factor analysis on people's positive relationship with others, General happiness and recreation</li> </ul> <b>Statistical Analysis in Research with SPSS (UBC)</b> <ul style="list-style-type: none"> <li>Project title: Treatments and variables to anxiety disorders</li> </ul>
2021	<b>Research Survey Design (UBC)</b> <ul style="list-style-type: none"> <li>Project title: Relationship between family socioeconomic status and personal life satisfaction</li> </ul>
2020	<b>Evidence-Based Curriculum Design (UBC)</b> <ul style="list-style-type: none"> <li>Project title: Integrating Physical Education with Social and Emotional Learning (SEL)</li> </ul>
2019	<b>Group Counsellor</b> Served at: Changhua Reform School, Agency of Corrections, Ministry of Justice (Changhua, Taiwan)
2018	<b>Student Teacher</b> Served at: National Hemei Experiment School (Changhua, Taiwan)
2017	<b>Student Teacher</b> Served at: National Taichung Special Education School (Taichung, Taiwan), Changhua County ChangTai Junior High School (Changhua, Taiwan), Taichung Special School for the Students with Hearing Impairments (Taichung, Taiwan)

## Work Experience

2019—2020	Army Standing Soldier Reserve Service Draftee, Chung Cheng Armed Forces Preparatory School (Kaohsiung, Taiwan)
2019	Teaching Assistant, Department of Special Education (NCUE) <ul style="list-style-type: none"><li>• Course: Instructional Strategies for Teaching the Disabled, Practicum in Special Education (For Learners with Emotional and Behavioral Disorders)</li></ul>
2016	Barista, Starbucks (Changhua, Taiwan)
2015	Math Mentoring, Changhua Council on Social Welfare (Changhua, Taiwan)

## Leadership and Teamwork

2022	Financial Manager, Taiwanese Graduate Student Association in Vancouver
2019	Activity Organizer, Department of Special Education (NCUE)
2019	Public Relations Manager, Department of Special Education (NCUE)
2017	Program Director, The Welfare Foundation for Autism (Taichung, Taiwan)
2016—2017	Resident Assistant, Student Council (NCUE)
2016—2017	Manager, Student Association of Special Education Department (NCUE)

## Volunteer Experience

2016—2017	International Volunteer Teacher, The Waker Foundation (Urumqi, Xinjiang)
2016	Program Assistant, Changhua County Autisms' Parent Association (Changhua, Taiwan)

## Natural Language Fluencies

Taiwanese	native
Mandarin	native
English	fluent

## Other Education

2022	Imperial College London
	<ul style="list-style-type: none"><li>• Course: <u>Mathematics for Machine Learning - Linear Algebra</u></li></ul>
2022	University of Illinois Urbana-Champaign
	<ul style="list-style-type: none"><li>• Course: <u>Object-Oriented Data Structures in C++</u></li></ul>
2022	University of Pennsylvania
	<ul style="list-style-type: none"><li>• Course: <u>Introduction to Programming with Python and Java</u>, <u>Introduction to Python Programming</u>, <u>Data Analysis Using Python</u>, <u>Introduction to Java and Object-Oriented Programming</u>, <u>Inheritance and Data Structures in Java</u>, <u>Computational Thinking for Problem Solving</u></li></ul>
2016—2019	Rehabilitation Consultation Program, NCUE
2015—2019	Teacher Education Program, NCUE

## Skills

Programming Languages:	Python, R, SQL
Machine Learning / Deep Learning:	Scikit-learn, Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering, Dimensionality Reduction), Predictive Modeling, Neural Networks, RNN, CNN, Attention, Transformer, TensorFlow, PyTorch
Data Processing / Analytics:	Data Preprocessing, Data Mining, Feature Engineering, Natural language processing
Data Visualization:	Tableau, Matplotlib, Seaborn