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|-------------------|---------------|---|-------------|--------------------|
| <b>Chi-Yu Lin</b> | Date of Birth | Jan 26, 1997  | Nationality | Taiwan             |
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## EDUCATION

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|------------------------|---|
| Start from<br>Sep 2020 | <b>Computer Science, Master of Science in CS @ Courant Institute of Mathematical Science<br/>New York University, New York, USA</b> |
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| Sep 2015<br>– Jun 2019 | <b>Information Management, Bachelor of Business Administration</b><br>National Taiwan University, Taipei, Taiwan |
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## AWARDS

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| Jun 2018 | Presidential Academic Excellence Award (2 <sup>nd</sup> Semester 2017-18) |
| Jun 2018 | Ranked Number Three in Academic Year 2017-18                              |

## PROFESSIONAL EXPERIENCE

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|------------------------|--|
| Aug 2018<br>– Jul 2019 | <b>Research Assistant   NTU, Taipei, Taiwan &amp; Minister of Education, Taipei, Taiwan</b> <ul style="list-style-type: none"> <li>Designed and organized comprehensive computational thinking teaching materials for professors and lecturers.</li> <li>Filmed and edited demonstrational lectures as reference for professors to use as course teaching material.</li> <li>Supervised team members throughout course material research process and provided final corrections.</li> </ul>  |
| Mar 2018<br>– Jun 2018 | <b>Web Programming Intern   Xaduro Inc, New Taipei, Taiwan</b> <ul style="list-style-type: none"> <li>Conducted regular website system maintenance to eliminate user experience issues.</li> <li>Programmed an innovative room booking notification feature to prevent overbooking from different websites.</li> <li>Operated data transfer tasks between Xaduro and AsiaYo through Json and utilized JavaScript and php for function development.</li> </ul>  |
| Aug 2017<br>– Feb 2018 | <b>Research Assistant   NTU, Taipei, Taiwan</b> <ul style="list-style-type: none"> <li>Machine Learning Project – Namesex on PyPI – Package to predict the gender tendency of a Chinese given name. (<a href="https://pypi.org/project/namesex/">URL: https://pypi.org/project/namesex/</a>)</li> <li>Created vectors from Chinese given names by using Python Word2Vec.</li> <li>Responsible for teaching the application of predictive models such as k-NN and logistic regression, validation by k-fold cross validation, as well as model tuning.</li> </ul>   |
| Feb 2016<br>– Aug 2017 | <b>Research Assistant   NTU, Taipei, Taiwan &amp; Artificial Intelligence Lab, University of Arizona</b> <ul style="list-style-type: none"> <li>Installed and operated program trails for software testing to identify errors and defects.</li> <li>Designed a new sensor monitoring and data upload function by incorporating the original sensor with Raspberry Pi.</li> <li>Conducted regular database maintenance and organizing of information uploaded by the Raspberry Pi to the cloud database.</li> <li>Utilized Python and postgresSQL for data upload operations and database management respectively, as well as php for website development.</li> </ul> |

## EXTRACURRICULAR ACTIVITIES

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|------------------------|---|
| Sep 2016<br>– Jun 2018 | <b>Member of NTU Softball Varsity Team   NTU Softball Varsity Team, Taipei, Taiwan</b> <ul style="list-style-type: none"> <li>Participated and competed in the National College Softball Championship.</li> <li>Communicated innovative set plays with teammates and team coaches during daily practices.</li> </ul>    |
| Sep 2016<br>– Jun 2017 | <b>Captain of NTUIM Men's Basketball Team   NTUIM Men's Basketball Team, Taipei, Taiwan</b> <ul style="list-style-type: none"> <li>Planned practice sessions and developed effective game strategies to use during competitions.</li> <li>Organized team gatherings and procured department cups for alumni.</li> </ul> |
| Sep 2018<br>– Jun 2019 | <b>Graduate Representative of NTUIM   NTU, Taipei, Taiwan</b> <ul style="list-style-type: none"> <li>Coordinated and organized attendance of department professors to student graduation events.</li> </ul>   |

- Planned and supervised graduation ceremony activities to facilitate the smooth progress of the event.
- Sep 2015 **Class Representative of NTUIM** | NTU, Taipei, Taiwan
- Jun 2019
  - Provided assistance to students of the Information Management Department.
  - Organized department events and student activities.
- Jan 2017 **Lecturer and Teaching Assistant for Python & Web Development Courses** | NTU, Taipei, Taiwan
- Feb 2017
  - Taught 30 beginner students how to build a website using HTML, CSS, and JavaScript.
  - Instructed students in Python programming and provided them assistance on assignments.
- Jul 2016 **Vice Coordinator of Orientation Camp for NTUIM & CL** | NTU, Taipei, Taiwan
- Sep 2016
  - Coordinated and managed camp activities for more than 100 participants.
  - Communicated with representatives from Department of Chinese Literature and facilitated student recruitment events. Supervised camp team leaders during freshman orientation events

## SELECTED PROJECTS

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- Jul 2017 **Sports Project – Maintenance of the Softball League Statistics Website** | NTU, Taipei, Taiwan
- Sep 2019
  - Responsible for website maintenance, function modification, and system troubleshooting.  
(URL: <http://13.59.8.57>)
- Nov 2017 **Sports Project – Basketball Statistics System** | NTU, Taipei, Taiwan
- Dec 2017
  - Utilized Java to develop statistics system for NTU basketball team.
- Jun 2019 **ML Project – Unsupervised Classification for Super Basketball League Player** | NTU, Taipei, Taiwan
- Jul 2019
  - Used Python Selenium as web crawler to gather all players' game data.
  - Conducted data preprocessing and dimensionality reduction using PCA, t-SNE, and LDA.
  - Applied K-means clustering and hierarchical agglomerative clustering to create strategic basketball team formations.
- Apr 2018 **ML Project – Foxconn Tech. Stock Price Prediction** | NTU, Taipei, Taiwan
- May 2018
  - Gathered news and history on Foxconn Technology Group stock prices and categorized the data in relations to an increase or decrease in stock prices.
  - Searched for positive and negative keywords using N-Gram (2 gram ~ 6 gram).
  - Used the keywords selected through TF-IDF as features of news to fit into various regression algorithms.
  - Utilized k-fold cross-validation to predict the chance of an increase or decrease in stock prices with an accuracy rate of 82%.
- Jan 2018 **SeeFood – Image Recognition App for Taiwanese Street Gourmet** | NTU, Taipei, Taiwan
- Feb 2019
  - Used Python Selenium as web crawler to gather images of Taiwanese street gourmet from various search engines.
  - Responsible for Android App development and data transferring between smartphone and server.

## TECHNICAL SKILLS

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|----------------------|--|
| Programming Language | C/C++ 、 C# 、 Python 、 Java 、 JavaScript 、 PHP 、 R 、 MATLAB |
| Web Development      | HTML 、 CSS 、 JavaScript 、 PHP 、 Python (Django) 、 SQL      |
| 3D Technologies      | WebGL 、 Three.js 、 Blender 、 Unity                         |

## CS RELATED COURSEWORK

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| Core Courses           | Programming Design 、 DSA 、 OS 、 Computer Organization & Structure 、 DB Management 、 Computer Networks & Applications 、 System Analysis & Design 、 Programming Languages (Haskell) 、 Scientific Computing  |
| Graduate Level Courses | Digital Speech Processing 、 <b>Big Data &amp; Business Analytics</b> 、 <b>Intro. to Fintech</b> 、 <b>Information Retrieval &amp; Text Mining</b> 、 <b>Statistical Learning: Theory &amp; Applications</b> 、 3D Programming 、 3D Creation in Reality |

