

# Chi-Hsuan Ho

Data Scientist

## Personal Info

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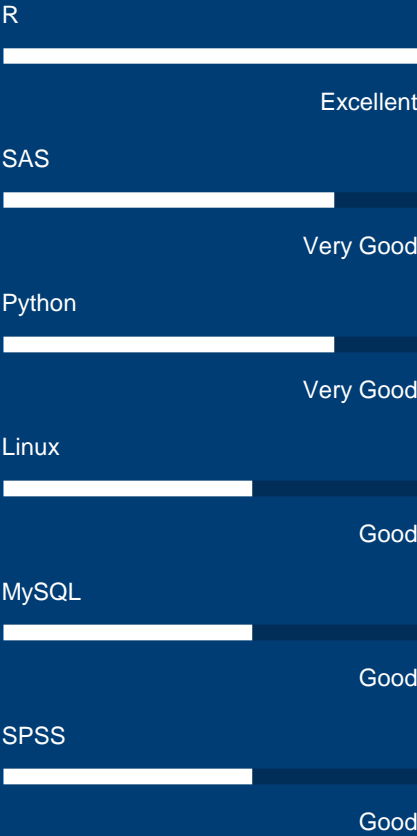
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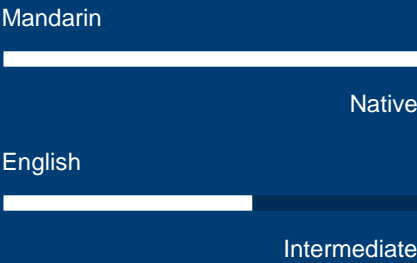
## Skills

Statistical Data Analysis  
Data Visualization  
Web Crawler  
Machine Learning

## Software



## Languages



## Education

- 2016-9 – 2018-6

**National Taiwan University (NTU)**  
*Master of Science in Epidemiology and Preventive Medicine*  
*Taipei, Taiwan*

- Concentration: Biostatistics, Genetic Statistics.
  - Awarded the first place among 43 participants at master’s thesis poster exhibition, 2018.
  - Relevant Coursework: Introduction and Application of Computational Biology Methods, Statistical Analysis of Genetic Data, Advanced Biostatistical Methods (Generalized Linear Model, Survival Analysis).
- 2012-9 – 2016-7

**National Cheng Kung University (NCKU)**  
*Bachelor of Science in Mathematics*  
*Tainan, Taiwan*

- Awarded the third place among 425 participants in the 2015 statistical competition in NCKU.
  - Relevant Coursework: Calculus, Advanced Calculus, Probability, Statistics, Biostatistics, Mathematical Statistics.

## Experience

- 2016-9 – 2018-6

**Dr. Chuhsing Kate Hsiao’s Lab, NTU**  
*Research Assistant*  
*Taipei, Taiwan*

- Master’s thesis: “Statistical Evaluation for Methods of Gene-Set Analysis with Multivariate Non-normal Scenarios”.
  - Extracted corresponding pathway information for five types of cancer from Kyoto Encyclopedia of Genes and Genomes (KEGG) database. (Python, R)
  - Chose six mRNA gene expression datasets from NCBI Gene Expression Omnibus (GEO) data repository and The Cancer Genome Atlas (TCGA) database.
  - Normalized the gene expression data, and checked the normality of these datasets with four kinds of multivariate normality tests. (R)
  - Simulated data with mixture distributions to evaluate the performance of five gene-set analysis methods and algorithms (Hoteling’s  $T^2$ , GSEA, Global test, Global ANCOVA, N-statistic) under the non-normal scenarios. (R)
  - Utilized interactive plots package, “plotly”, to visualize analyses results. (R)
  - Developed radar plots and grouped dot plots to summarize the information from six plots into one plot more efficiently and clearly. (R, plotly)
- 2017-7

**1st Formosa Grand Challenge – Talk to AI, NTU**  
*Project Assistant*  
*Taipei, Taiwan*

- Effectively communicated with other assistants to evaluate and decide the scopes of questions.
  - Refined the dialogue data in the shows from Taiwan Public Television. (Python)
- 2013-1 – 2013-2

**The Fifth Math Camp, NCKU**  
*Staff Member in Activities Department*  
*Tainan, Taiwan*

- Collaborated with a team to design activities for high school students.

## Certifications

- 2017-7 – 2017-8

- Information System Training Program of Computer Science and Information Engineering, NTU: Python, Linux, MySQL.