Ying-Chen Huang

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EDUCATION

M.S. in Chemistry, National Taiwan University **2017-2019**
-Overall GPA: 4.01/4.3

B.S. in Biotechnology, National Chiao Tung University **2012-2016**
-Overall Grade: 92.33/100 (Rank:1/44)

WORK EXPERIENCE

RD Lithography Engineer in Taiwan Semiconductor Manufacturing Company — 2019-2020

- Develop advanced FEOL lithography process beyond N3 technology.
- Evaluate new material of resist performance on FEOL lithography patterning.
- Co-work with various teams (Integration, Etching) to evaluate new processes beyond N3 technology.
- Quality inspection for inline wafers by using SAS EG.

Data Analyst in NTU CCH Lab — 2017-2019

- Construct classification machine learning model by MATLAB and Rapidminer.
- Analyze data and create the GUI by MATLAB for reducing the time needed for analysis by 90% vs. traditional methods.
- Liquid chromatography mass spectrometry for chemical quantification.
- High resolution mass spectrometry application in exploring the chemistry of the complex biological systems.

SKILL and PORTFOLIO

-Web Development: HTML5. CSS. JavaScript. Responsive Web Design. Bootstrap

Personal Website: https://yinx8306.github.io/MyWebsite/

-Programmin Language:

Python: Script data from website. Smart Brain for image detection

Matlab: Graphical User Interface development.

MySQL: Manipulating and retrieving data in databases.

-Statistical Analysis Software:

Tableau: Data visualization for product analysis of Trend Micro.

RapidMiner: Machine learning model construction for classification.

-Scientific Research:

Publication

1. Huang, Y. C., et al. (2020). "Predicting Breast Cancer by Paper Spray Ion Mobility Spectrometry Mass Spectrometry and Machine Learning." Anal Chem
2. Lin, L. E., et al. (2020). "Precision biomarker discovery powered by microscopy image fusion-assisted high spatial resolution ambient ionization mass spectrometry imaging." Anal Chim Acta
3. Hsieh, H. Y., et al. (2017). "Quantification of Endogenous Cholesterol in Human Serum on Paper Using Direct Analysis in Real Time Mass Spectrometry." Anal Chem