Jamal Ching-Chuan Chen
陳慶全

Data Scientist

◎ CONTACT

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in www.linkedin.com/in/celestial0230

○ github.com/ChingChuan-Chen

✿ EDUCATION

2012.09 2014.09

National Cheng Kung University, Tainan, TW

🎓 Master of Statistics

GPA: 4.0 / 4.0

Thesis:

A Classification Approach Based on Density Ratio Estimation with Subspace Projection

2008.09 2012.06

National Cheng Kung University, Tainan, TW

🎓 Bachelor of Economics and Statistics (Double major)

GPA: 3.5 / 4.0

📖 LANGUAGES

❯ Chinese	**Native speaker**
❯ English	**Fluent**
❯ Japanese	**Intermediate (JLPT N3)**

🔧 SKILLS

R/MatLab	**Master**
Statistics	**Advanced**
Python	**High-Intermediate**
Bash/SQL	**High-Intermediate**
Machine Learning	**Intermediate**
C++ / Scala	**Intermediate**
C# / Java / JavaScript	**Basic**

☑ REFERENCES

Jeng-Min Chiou
Research Fellow
Institute of Statistical Science
Academia Sinica
+886-2-2783-5611 ext 312
jmchiou@stat.sinica.edu.tw

👤 SUMMARY

I am Jamal. I work as data scientist in a in multinational enterprise of wafer manyfacturing. I am also ...

☑ A system developer with domain knowledge and strong technical skills.
☑ A skilled engineer in distributed computing, data preprocessing and data visualization.
☑ A programmer skilled with R, Python, Shell, MatLab, Scala, SQL and C++.
☑ A statistician worked deeply with theoretical or applied statistical methods.
☑ A machine learner acquainted with different algorithms to solve real problems.

💼 WORK EXPERIENCES

Taiwan Semiconductor Manufacturing Company Limited, Taichung, Taiwan
September 2018 - Present

Senior Data Scientist, CIM Department

Taiwan Semiconductor Manufacturing Company Limited, Taichung, Taiwan
July 2016 - August 2018

Data Scientist, CIM Department

Develop automation systems on quality control of wafer processing from a big volume of data (3 billions per day).

Highlights

✔ Develop an algorithm to identify the defects on the wafer via a neural network model.

✔ Develop an algorithm of process changing detection which suits for final WAT data.

✔ Introduce a yield analyzing procedure to find out important variables.

✔ Introduce a correlation visualizing system to reveal the relationships between measurements.

✔ Build up a big data solutiion for our department.

✔ Construct a developer-friendly environment for developing R and Python behind firewall.

Academia Sinica, Taipei, Taiwan
September 2015 - June 2016

Research Assistant, Institute of Statistical Science

Complete at least one research in the field of functional data analysis.

Highlights

✔ Construct a scheduled task to digest data crawled from Taiwan freeway bureau.

✔ Use functional clustering and functional regression to impute the missing values and predict future flow, occupancy rate and speed.

✔ Build up a interactive visualization system to show the trends of flow, occupancy rate and speed.

📄 JOURNALS

milr: Multiple-Instance Logistic Regression with Lasso Penalty

Ping-Yang Chen, Ching-Chuan Chen, Chun-Hao Yang, Sheng-Mao Chang and Kuo-Jung Lee
The R Journal (2017) 9 :1 , pages 446-457 .
◉ https://journal.r-project.org/archive/2017/RJ-2017-013/index.html

✿ AWARDS

December 2017

TSMC Kaggle Competition for the Defect Recognition
🏆 Third Place

August 2014

Competition for Data Analysis with R in Taiwan
🏆 Honorable Mention