Wan-Ting Huang 黃婉婷

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EDUCATION

M.S. in Statistics   02.2016 - 01.2018
National Chiao Tung University, Hsinchu, Taiwan
RELEVANT COURSEWORKS: Natural Language Process, Deep Learning, Machine Learning, Functional Data Analysis, Multivariate Analysis, Data Structures and Object-oriented Programming, Statistical Computing

B.S. in Mathematics, minor in Secondary Teacher Education   09.2010 - 06.2015
National Tsing Hua University, Hsinchu, Taiwan

Exchange Program   10.2013 - 07.2014
Humboldt-Universität zu Berlin, Germany (Fulfilled 4 courses from Berlin Joint Masters Program in Statistics)

EXPERIENCE

Data Analyst Intern   07.2016 - Present
Computational Intelligence Technology Center, Industrial Technology Research Institute of Taiwan, Taiwan
- Achieved 98% increase in OLED yield and constructed an inline system of ML based DOE
- Parsed and preprocessed sensor data to structured data and identified the critical process parameters
- Built Lasso and neural network models and optimized process parameter setting by using GA & PSO

Research Assistant under Dr. Wolfgang Härdle   02.2014 - 04.2014
Ladislaus von Bortkiewicz Chair of Statistics, Humboldt-Universität zu Berlin, Germany
- Edited and proofread Advanced Math course slides, including Differential Calculus, Topology and Convex Optimization
- Contributed to organizing examples such as PCA and clustering on quantlet.de using R

Research Trainee   07.2013 - 08.2013
Institute of Mathematics, Academia Sinica, Taiwan
- Coded programs in Python to create the drawing effects such as edge detection and mosaic
- Visualized mathematics objects such as countability and transformation on complex plan
- Promoted the works of math animation on YouTube (http://ppt.cc/oCmro)

SKILLS

Computer: Python (Pandas, Numpy, Keras, Tensorflow), R, C++, Matlab , Latex
Language: Chinese (native), English (fluent), German (familiar)

AWARDS

Honorable Mention, 2017 Smart Grid Big Data Analytics Competition   08.2017 - 10.2017
Bureau of Energy, Ministry of Economic Affairs, Taiwan & Industrial Technology Research Institute of Taiwan
Honorable Mention, 2017 TMU Datathon   06.2017
Taipei Medical University, Taiwan

PROJECTS (selected)

Movie Title Generator   01.2018
- Construct a model pipeline to generate movie titles from scripts

Power Consumption Prediction   10.2017
- Cluster power users into different groups
- Predict power consumption of each group by LSTM model

Housing Price Prediction   07.2017
- Predict housing price by neural network model and open data

Key Factor of Poor Yield Detection   11.2016
- Detect poor yield through wafer log and FDC data in Semiconductor Manufacturing field using python on AWS EC2