Siming Yan

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EDUCATION

University of Wisconsin-Madison Madison, WI

Master's Degree in Agricultural & Applied Economics, Professional Option 09/2019-12/2020

DongHua University Shanghai, China

Bachelor`s Degree of Science, Energy and Environmental System Engineering 09/2014-06/2018

Bachelor`s Degree of Art, English 09/2015-06/2018

INTERNSHIP & WORK EXPERIENCE

Siemens (Tianjin) Building Technologies Co. Ltd., Tianjin, China

Manager Assistant 06. 2016 – 08. 2016

Helped with contract review for procurement. Arranged meetings with clients.

Take commercial photos for products. Collected sales' weekly reports.

Tianli Psychological Consultation Company Suzhou, China

Clinic Assistant 07. 2018 – 12. 2018

Collected and archived patients' information data, including patients' age, drug usage, Family history of hereditary diseases. Ran simple regressions on patients' data and visualized to serve as slides content when presented by the doctors in our clinic.

Participated in establishing company website and WeChat subscription account.

Participated in creating Rorschach test modified regarding Chinese Culture.

Prepared lecture notes and slides for professors, which they used to teach students or workers how to prevent themselves from psychological problems, and when encountered with problems, what should they do.

North China Electricity Power University Baoding, China

Research Assistant (Advisor: Yan Li) 01. 2019 – 06. 2019

Collected data and pre-disposed and screened data of 438 power plants in Shanxi province of China.

Interpreted relationship between power generating and air pollution by using simple regression model and several fixed effects, a positive relationship is found between power plants density, workload and local environment pollution index, including CO_2, SO_2, NO_x, etc.

Visualized data and causal inference results by using R and Python and presented in a department seminar. The following study of car mobility, traffic load impacts is still ongoing.

Job Intent:

SQL, R (preferred language) and Python data processing. Applied econometrics and Machine Learning using Pytorch, Caret, TensorFlow. Data Visualization by Tableau, plotly and shiny app.

Current Work

Impacts of Covid-19 on Economic vitality assessed by Electricity Production: evidence from Shanxi, China. Using R and Python to specify several research questions including: how Covid-19 affects power plant production behavior, how the behavior changes among different types of plants (fossil fuel, wind, hydro, photovoltaic) and ownership (nation owned or private owned), and how is electricity production behavior reflect local economic vitality. Methods including econometric causal inference, Neural Network and Random Forests. The Machine learning prediction show the results of city level GDP loss indicated by power plants' production behaviors.

Awards

Outstanding bachelor graduation thesis of Donghua University, class of 2018. *Numerical Study on Boiling Heat Transfer of R1234yf. Advisor: Prof. Zhong Ke, Dr. Jia Hongwei.*

SKILLS

Programming: R, Python, SQL, Tableau. Web Scrapping, Pytorch, Caret, TensorFlow, LaTeX, GitHub.

Office: Excel, Word and PowerPoint

Language: Proficient in English, native in Chinese

Others: Classic & Jazz piano performing. Chinese Flute performing. Composing.