Sisi **Huang**

Kaiserdamm 100, 14057 Berlin

(+49) 15774421389 | ✉ sisihuang@gxm.de | 🏠 sisi-huang.github.io | sisi-huang | si-si-huang

Education

Master of Science *in Statistics*

HUMBOLDT UNIVERSITY OF BERLIN

Berlin, Germany

Oct. 2016 - Sep. 2020

Thesis: An Image Classification Tool for Wikimedia Commons
- Developed an algorithm for dealing with highly imbalanced image data by oversampling and data augmentation.
- Implemented the data with self-designed CNN architectures and transfer learning.

Bachelor of Economics *with specialization in Statistics*

SHANXI UNIVERSITY OF FINANCE AND ECONOMICS

Shanxi, China

Sep. 2012 - Jul. 2016

Thesis: The Study between FDI and Regional Income Gap in Various Industries
- Measured the regional income disparity in different industries by using the Williamson coefficients.
- Williamson coefficients excluding regional economic scale and FDI excluding price factor were used to do a panel regression analysis.

Work Experiences

Student Assistant

WISSENSCHAFTSZENTRUM BERLIN FÜR SOZIALFORSCHUNG gGmbH.

Berlin, Germany

Dec. 2018 - Present

- Closely worked with the Research Director and other scholars at the research unit to develop the following Shiny applications and dashboards using R:
    - DDWizard for querying and diagnosing research design.
    - CausalQueries for Bayesian methods for causal inference.
    - Dash-dash for providing researchers and policymakers in Nigeria, Uganda and Sierra Leone up-to-date information about COVID-19 in their respective countries.
    - Crowdsourcing hypotheses app for a COVID-19 model challenge.
- Contributed to the R-package DesignLibrary.

Student Assistant

CHARITÉ UNIVERSITÄTSMEDIZIN BERLIN RADIOLOGY DEPARTMENT

Berlin, Germany

Feb. 2018 - Aug. 2018

- Provided research analysis support to a team of physicians studying the relative diagnostic performance of tests to detect heart disease, and to another team studying claustrophobia.
- Prepared data for analysis, and conducted statistical tests, such as McNemar test, Fisher exact test, sensitivity analyses, and AUC comparisons.
- Carried out regression analyses using logit.

Junior Analyst

AGDER ENERGI SOLUTIONS GmbH

Berlin, Germany

May. 2017 - Aug. 2018

- Developed a shiny dashboard application for monitoring high-frequency trade and energy data.
- Used machine-learning approaches like LASSO for forecasting intraday price.
- Reviewed different dynamic visualization tools to identify the optimal option for the company for its future projects.

Group Leader

PROJECT: CONSUMER SURVEY FOR MEASURING DEMAND

Shanxi, China

Mar. 2015 - May. 2015

- Completed a capstone project, studying the viability of a new product for a tourism development company in Shanxi, China.
- Conducted an original survey with potential consumers to understand future market demand for the product.
- Won first prize for excellent project performance among 50 other teams.

Skills

Programming	Python, SQL, Shell, Matlab, JavaScript, HTML, CSS
VCS	Git
Statistics software	R, Stata, SPSS, Excel
Markup / Viz	LaTeX, Markdown, Shiny, Tableau, Photoshop
Languages	Native Chinese, Fluent English, Advance German
Self-taught courses	Coursera: SQL for Data Science , Image Understanding with TensorFlow on Google Cloud Platform