



Sisi Huang

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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: Consumer Survey for measuring Demand

- 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.

Work Experiences

Student Assistant

WISSENSCHAFTSZENTRUM BERLIN FÜR SOZIALFORSCHUNG GMBH.

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.

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, Advance English, Intermediate German

Self-taught courses Coursera: SQL for Data Science, Image Understanding with TensorFlow on Google Cloud Platform