



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: 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 [Supervisor: **Prof. Macartan Humphreys**]

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 [Supervisor: **Prof. Marc Dewey**]

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 [Supervisor: **Lukas Schwarzensteiner**]

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

Advance Python, Intermediate SQL, Intermediate Shell, Intermediate Matlab, Beginner JavaScript, Beginner HTML, Beginner CSS

VCS

Advance Git

Statistics software

Advance R, Advance Stata, Advance SPSS, Advance Excel

Markup / Viz

Advance \LaTeX , Advance Markdown, Advance Shiny, Advance Tableau, Intermediate Photoshop

Languages

Native Chinese, Fluent English, Advance German

Self-taught courses

Coursera: IBM Data Analyst Professional Certificate, Image Understanding with TensorFlow on Google Cloud Platform