



# 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, Fluent English, Advance German

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