Wenting Wang

Research Interest	Neuroscience, Computation, Statistics
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Education

M.Sc. Neural Information Processing — **from 10.2021**
University Tuebingen, Germany

M.Sc. Social and Economic Data Analysis — **10.2016 - 12.2019**
University Konstanz, Germany

Exchange, Computer Science — **08.2018 - 12.2018**
University of Massachusetts Amherst, USA

Exchange, Economics and Business Administration — **04.2015 - 08.2015**
University Passau, Germany

B.Sc. Statistics — **09.2012 - 09.2016**
Southwestern University of Finance and Economics, China

Work Experience

Research Assistant — **Werner Siemens Imaging Center** — **from 01.2022**

- Implement realtime fMRI and PET embedding function, for brain imaging in animal models of neurodegenerative diseases.
- Explore on building multimodel for fMRI and PET data analysis.

Data Analyst and Programmer — **Sanofi R&D, Chengdu** — **04.2020 - 02.2021**

- Build the risk-based monitoring and prediction system, to improve clinical trail data quality and lower cost, based on statistical tests and machine learning.
- Design and visualise information through interactive website, for providing users direct insights of clinical trial process.
- Build pipeline for automatic workflow of data extraction, transformation and loading, end-to-end from database to user interface.

Research Experience

Master Thesis — **University Konstanz** — **03.2019 - 09.2019**

Predicting Court Decision: a Multimodal Deep Learning Perspective.

Predict the judicial court decision, based on a fusion model with multimodel deep learning and natural language processing techniques, utilising structured data(case background), text, and audio(oral arguments corpus) from the Supreme Court of the US.

Internship — **Continental AI and Robotics Lab, Regensburg** — **09.2017 - 03.2018**

Project 1: Fuel Efficient Fleet.

Design a prototype based on the customized neural network model to monitor and motivate fuel-efficiency driving actions, leveraging high-frequency panel data of fleet driving behaviours (GPS, speeding, shifting, idle, etc.).

Project 2: Online Indoor Localisation.

To localise objects indoors in realtime, train the Random Forest and SVM model using secondly time-series data collected from wireless sensors, based on AutoML technicals, i.e., automotive optimising hyper-parameter and parameter, and parallel computing on AWS cloud platform.

Lecture Projects — **University Konstanz** — **2017 - 2018**

Deep Learning Project: Driver, Riders and Helmets Detection in the Traffic Video.

To automatically identify motorcycle drivers and riders, examine their helmet-wearing status by training the computer vision models (CNN, YOLO) parallel on Google Could Platform, using traffic video recorded in Myanmar.

Machine Learning Project: Bike-sharing Demand Forecast.

Forecast bike rental demand of the bike-sharing project in a city by training several machine learning models (Random Forest, SVM, XGBoost), utilising daily historical usage patterns and weather data.

Languages

Chinese	Native
English	Proficient
German	Intermediate

Skills

Python, R, C++, Matlab, Stata, SPSS, Tableau, SQL, AWS, Google Cloud Platform, HTML, CSS, JavaScript, D3.js, Vega, Docker, gRPC, Jinja, bash/zsh

Awards

Honourable Mention - USA Mathematical Contest in Modelling, 2015
- *Theme: Ebola Virus Spreading Forecast*

Silver Award - China Undergraduate Mathematical Contest in Modelling, 2014
- *Theme: Creative Foldable Chair Design and Modelling*

Tsinghua University First-class Art Certification - Flute and Piccolo, 2012

Silver Award - Asian Music Festival Symphony Competition, Singapore, 2010