

# WENJIE TU

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## Education

### University of Zurich

Sep. 2020 – Present

*Master of Arts UZH Business and Economics*

*Zurich, Switzerland*

- Major: Economics | Minor: Data Science
- Coursework: Foundations of Data Science, Empirical Methods, Advanced Statistics, Big Data Methods for Economists, Program Evaluation and Causal Inference, Time Series Analysis, Computational Statistics

### Jiangxi University of Finance and Economics

Sep. 2016 – Jul. 2020

*Bachelor of Business Administration*

*Nanchang, China*

- Major: Accounting (Certified Public Accountants track)
- Weighted Average Score: 91.45/100 (ranking: 10/268)
- Awards (merit-based): CSC Scholarship (2018), Model Student Scholarship (2019), RSM Scholarship (2019)

### University of Essex

Oct. 2018 – Jul. 2019

*Study Abroad Program (funded by CSC)*

*Colchester, UK*

- Major: Business and Economics
- Grade: First Class

## Experience

### Bank of Communications

Jul. 2019 – Aug. 2019

*Summer Intern*

*Nanchang, China*

- Dealt with the customers and their complaints in a timely manner by knowing all of the bank's policy issues and procedures.
- Assisted in making sure that the daily work to be done not only finishes on time but runs smoothly.
- Promoted bank's financial products and provided customers with some advice on financial products.

## Projects

### Impact of Euthanasia on Suicide Rates among Elderly | *in progress*

Apr. 2021 – Jun. 2021

- Evaluate the impact of legalization of active euthanasia on suicide rates among elderly by using DiD method.

### Housing Rent Prediction | *Big Data Methods for Economists*

Mar. 2021 – Apr. 2021

- Applied different feature engineering techniques to data preprocessing procedure.
- Explored different machine learning algorithms in predicting rents in Switzerland.
- Utilized many empirically-derived rules of thumb for hyperparameter tuning.
- Achieved an R-squared score of 0.723 which ranks 4th among 13 groups.

### Image Recognition with Deep Neural Networks | *Foundations of Data Science*

Dec. 2020 – Jan. 2021

- Built a deep neural network with Tensorflow in Colab; configured the structure of the neural network; visualized the training process for fine-tuning hyperparameters; achieved 98.6% accuracy on MNIST dataset.
- Built trainable layers on top of pre-trained model by using transfer learning techniques; customized the base model to the given task by unfreezing layers from bottom to top; explored many different methods and techniques (initialization functions, activation functions, batch normalization, dropout, early stopping) to address vanishing gradients and overfitting; achieved 84.4% on CIFAR-10 dataset.

## Technical Skills

**Programming Languages:** Python, R, LaTeX

**Developer Tools:** VS Code, Jupyter Lab, R Studio, Colab, Typora

## Extracurricular

### Friends International

Nov. 2018 – Jun. 2019

*Coordinator of Communications*

*Colchester, UK*

- Served as a liaison between the organization and international students.
- Promoted communications and interactions among 60 members through hosting recreational events.