

# Shuo Chen

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## Education

### Master of Science in Data Science

LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN (LMU)

- Grade: 1.13/1.0
- Elite Program funded by Bavaria Government

Munich, Germany

Nov. 2020 - present

### Bachelor of Management in Information System

SUN YAT-SEN UNIVERSITY (SYSU)

- Grade: 3.8/4.0, 10%
- Minored in Compute Science

Guangzhou, China

Sep. 2016 - June. 2020

## Work Experience

### Department of Statistics, LMU

STUDENT ASSISTANT

- Work in Statistical Learning and Data Science Group
- Do literature review on performance evaluation of complex and non-independent data. Related methods are spatial cross validation, blocked cross validation etc.
- Perform survival data analysis on clinical dataset from LMU Klinikum. Work includes data preprocessing, benchmarking using R, mlr3

Munich, Germany

Nov. 2021 - Present

### Unit for Intelligent Transportation Systems, University of Innsbruck

STUDENT ASSISTANT

- Analyze mobility survey data such as data cleaning, preprocessing and data visualization.
- Perform Choice Modeling Analysis based on Mixed Logit Model.

Remote

Dec. 2021 - Present

### Research Center, Dark Matter AI Co., Ltd.

RESEARCH INTERN

- Pruned Speech Recognition Network and did pruning research on knowledge distillation and matrix factorization.
- Developed AI Fitness Recognition System from scratch using C++, achieved recognition in 20 FPS.

Guangzhou, China

June. 2020 - Oct. 2020

### Research Center, Dark Matter AI Co., Ltd.

RESEARCH INTERN

- Developed automatic network pruning toolkit.
- Achieved almost the same top-5 error rate with **40% fewer** parameters with ResNet50 on ImageNet.

Guangzhou, China

Jul. 2019 - Oct. 2019

## Research & Project

### Data Poisoning in Temporal Knowledge Graph Forecasting

MASTER THESIS RESEARCH

- Perform data poisoning on temporal knowledge graph forecasting tasks.

Munich, Germany

June. 2022 - Present

### Temporal Embedding Methods on Temporal Knowledge Graph

MASTER THESIS RESEARCH

- Perform large-scale empirical experiments for a systematical insight on the influence of different combinations of temporal embedding methods and scoring interactions
- Develop pykeen to support temporal knowledge graphs

Munich, Germany

Mar. 2022 - Present

### Named Entity Recognition for Document-level Event Extraction

DATA SCIENCE PRACTICAL MODULE OF MASTER PROJECT

- Optimize NER model for downstream event extraction
- Replace the original BiLSTMCRF with a BERTCRF and improve the downstream performance by **4%**
- Our model ranks **3rd** in the international leaderboard.
- Do literature review on SOTA NER model

Munich, Germany

Mar. 2022 - Present

## Meta-Learning Based Named Entity Recognition

BACHELOR DISSERTATION RESEARCH

Guangzhou, China

Oct. 2019 - Apr. 2020

- Recognized named entities under few-shot and low-resource setting.
- Improved accuracy by **30%** through combining Meta Learning (MAML) and BERT.

## Multisource Information Retrieval and Intelligent Analysis System

NATIONAL COMPETITION PROJECT

Guangzhou, China

Oct. 2019 - Apr. 2020

- Built knowledge graphs, aggregated search engines and visualization website based on crawled TBs data via machine learning and deep learning.
- Led the team and won the **First Class Prize** and ranked **2nd** among **hundreds competitors**.

## Honors & Awards

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2022	<b>SIST LMU Scholarship</b> , for students with very good performance and special technical knowledge	Munich, Germany
2019	<b>National Scholarship</b> , as ranked 1st in bachelor class	Guangzhou, China
2019	<b>First Class Scholarship</b> , for excellent and top-ranked students in SYSU	Guangzhou, China
2019	<b>First Class Prize</b> , in National Competition of Data Driven and Innovation Research	Chongqing, China
2019	<b>Bronze Award</b> , in Provincial Competition of IT System Application and Development	Guangzhou, China
2017	<b>National Encouragement Scholarship</b> , for excellent students from disadvantaged background	Guangzhou, China

## Programming Skills

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<b>Proficient</b>	Python (PyTorch, NumPy, Pandas), R
<b>Intermediate</b>	Linux, C, C++, Java, TensorFlow, LaTeX, Bash Scripting
<b>Basic</b>	Matlab, Haskell, Javascript

## Language

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<b>English</b>	Full professional proficiency
<b>Chinese</b>	Native or bilingual proficiency
<b>German</b>	Intermediate proficiency (B2.1)