

TAO NI

<https://tony520.github.io>

162 Daley Road, Acton ACT 2601, Canberra

(+61)0466592472 taoni0718@gmail.com

EDUCATION

Australian National University February 2019 - December 2020
Master of Computing (Major GPA: 6.3/7.0, Specialization: Data Science)

Shanghai Jiao Tong University September 2014 - June 2018
Bachelor of Engineering (Major GPA: 3.3/4.0, Electrical Engineering)

RESEARCH PROJECT

Open Relation Extraction November 2019 - November 2020

Co-advised by Dr. Gabriela Ferraro and Dr Qing Wang

- Applied Deep Learning methods on Open Information Extraction (OIE) Relation Extraction (ORE).
- Build a BiLSTM-CRF model to achieve the relation extraction (sequence tagging) over different OIE datasets.
- Accomplish an Encoder-Decoder framework for applying sequence to sequence transformation to ORE tasks.
- Create a new tagging schema for multiple relation extractions per sentence over Stanovsky OIE dataset.

Acemap Academic System Development October 2016 - June 2018

Advised by Prof. Xinbing Wang

- Designed and implemented an academic search system to visualize the academic networks.
- Applied academic maps to integrate the present academic data and crawled large data to obtain the database. Including 1.27 hundred million papers, 1.15 hundred million scholars and 24000+ journals.
- Implemented detailed front-end and back-end functions of Acemap website. Analyzed papers, authors and affiliations in latest conferences including KDD, MOBICOM, OSDI, etc.

WORK EXPERIENCE

Unic Data, Shanghai November 2019 - January 2020

Data Mining Intern

- Data filtering, mining and analysis over millions of customer data from SAIC Volkswagen Automotive Co., Ltd.
- Applied Machine Learning methods tools to build a well-performed SKODA customer value prediction model.
- Utilized MLXTEND (Machine learning extensions) tools to implement association mining on SKODA customer data generate association rules of customer's value with different factors (1.4 million customers).

Green Music Australia, Canberra May 2019 - November 2019

Volunteer Software Developer Intern

- Designed and developed the front-end back-end webpages of Green Music Australia as a volunteer developer.
- Participated in several green charity activities to promote music with the concept of sustainable development. Implemented Agile Software Development Methodology into the project Working in a diverse team.

Schneider Electric, Shanghai

May 2018 - October 2018

Electronic Computer-aided Design (ECAD) Intern

- Participated in and assisted Schneider researchers to develop the first "Escape Room" learning system.
- Develop the data processing tools for converting and filtering of electronic component data. The data processing tool has been integrated into production process and improve the efficiency over 200%.

TECHNICAL SKILLS & LANGUAGES

Programming Languages:	Java, Python, C++, Swift, HTML, CSS, JavaScript, SQL
Software Platform & Tools:	Android Studio, Xcode, IntelliJ, Visual Studio, MATLAB, LaTeX
English Level:	TOEFL IBT: 101, GRE: 321+4.5

HONORS & AWARDS

2017 Mathematical Contest in Modeling/Interdisciplinary Contest in Modeling - Second Prize.
 2015, 2016 Zhiyuan Honor Scholarship of Shanghai Jiao Tong University (10%)
 2015, 2016, 2017 Academic Excellence Scholarship of Shanghai Jiao Tong University (30%, 30%, 15%)