

Dongqi Pu

M.SC. STUDENT · DATA SCIENCE

The University of Queensland(UQ), Brisbane, Queensland, Australia

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Education

University of Queensland

MASTER OF DATA SCIENCE

Brisbane, Australia

Feb. 2020 - Nov.2021(Expected)

Central China Normal University

BACHELOR OF SOFTWARE ENGINEERING

Wuhan, China

Sep. 2015 - Jul. 2019

- **Outstanding Graduate**, 2019
- **Major GPA: 86.48/100, GPA: 84.71/100, Ranking: Top 1(Junior) ,Top 3(Sophomore)**
- **Specialized Courses:** C/C++/JAVA, Algorithm & Data Structure, HCI, Web, Database, Computer Network, Cloud Computing, Computer Architecture, Operating System, Compiler Principle, (Object-Oriented) Software Engineering, Information Security, Artificial Intelligence, Software Architecture, Software Testing and Quality Assurance, Software Project Management, Teamwork.

National Tsing Hua University

COMPUTER SCIENCE (EXCHANGE STUDENT)

Hsinchu, Taiwan

Sep. 2018 - Jan. 2019

- **Courses Enrolled:** Machine Learning, Data Mining, Linear Algebra, Probability and Python.
- **Supervisor:** Liang-Bi Chen

Research & Project Experience

The Application Research of Honey Encryption in Protecting Privacy Data

Supervised by Prof.GUO Yajun

GRADUATION PROJECT

December. 2018 - May. 2019

- Base on password encryption, we introduce the concept of the distribution-transforming encoder. The system will output a plausible-looking decoy message to confuse the attacker when decrypting a message with exhaustive-key-search method.

“The Beauty of Math” —— A Science Popularization Website

Supervised by Prof.Shuangjie Peng

TEAM LEADER

April. 2018 - April. 2019

- Project Members:Zihan Chen, **Dongqi Pu**, Zirui Li, Kaiqi Xu, Ya Zhang
- Actively involved in building a website to increase the common public interest in math for its own sake —— its ideological, spiritual and humanistic sides, rather than applying math to solve scientific and technological problems as a dull tool.

Short-term Prediction of Commercial Housing Price

Supervised by Prof.Fuzhe Zhao

PROJECT LEADER

March. 2017 - March. 2018

- Project Members: **DongqiPu**, Dingling Shao, Tingyu Wu, Jing Zeng and Wenyong Qian
- Short-term prediction of commercial housing price in Hongshan District based on online data.
- Used network retrieval data to formulate customers interests, economic behaviors, and short-term housing price predictions.
- Applied Baidu Search Index (BSI) as sample data to dispose of the default values, filter out zero-variance variables and selected 23 key variables from a total of 60 search words.
- Fitted and forecasted commercial housing prices in Hongshan District, Wuhan City by using 6 regression models (Multiple Linear Regression, Classification and Regression Trees, Bagging, Random Forest, Support Vector Machine) in the empirical research section to get the best models —— the Linear Regression Model and Random Forest Model, with an average error rate of -0.11% and 0.13% respectively.

Publications

Privacy Data Protection Based on the Honey Encryption

NETINFO SECURITY

GUO YAJUN(Advisor), **DONGQI PU**

December.2019.(Expected)

- The security of honey encryption is higher than the existing password-based encryption, and the decoy message is also too difficult to distinguish.

Housing Price Prediction Based on Web Search Data

Information & Communications

DONGQI PU, DINGLING SHAO, TINGYU WU, JING ZENG AND WENYONG QIAN

January.2018.

- Utilized six regression models in the empirical research section and The Linear Regression Model and Random Forest Model delivered the best performance, with an average error rate of -1.1% and 1.3% respectively.
- This paper has been quoted two times by now.

Application of Data Mining in Artificial Intelligence

China Computer & Communication

DONGQI PU

October.2016.

- This paper has been quoted four times by now.

Decadent Time

SOLE AUTHOR, ISBN: 978-988-15209-0-6

- There were 35000 volumes of sales, published by Chinese Press in HongKong.

Novel

2013

Selected Awards

CENTRAL CHINA NORMAL UNIVERSITY

2019	Outstanding Graduate , Central China Normal University	<i>Wuhan, China</i>
2019	Overseas Exchange Scholarship , Central China Normal University	<i>Wuhan, China</i>
2017	Science and Innovation Star , There were only ten students received this honor in the university in a year.	<i>Wuhan, China</i>
2017&18	Boya Scholarship , Central China Normal University	<i>Wuhan, China</i>
2017&18	Honor Roll Student , Central China Normal University	<i>Wuhan, China</i>
2016	Shuren Scholarship , Central China Normal University	<i>Wuhan, China</i>