



## XUHAO DU (PETER)

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### Profile

An enthusiastic guy interested in working with data and colleagues.

### Education

University of Western Australia — Ph.D.	2015.2 - present
Nanjing University — Bachelor of Science	2010.9 - 2014.6

### Data Competition Experience

- Rong360 Internet financial Competition — rank: 1/900+ 2015.8 - 2015.10

Predict user's willing of second loan based on the their information  
key: \*xgboost, \*Cross features construction and \*Model ensemble

- DiDi taxi demand prediction —rank: 19/1200+ 2015.5 - 2015.6

Predict the demand and supply gap based on the time and space data  
keys: \*Feature engineering and \*Sample expansion.

- China Unicom demand prediction — rank: 8/700+ 2015.3 - 2015.4

Predict user's smartphone update pattern based on their plan consumption.  
keys: \*Web spider and \*GBDT

### Work Experience

- Ph.D., Centre of Acoustics, Dynamic and Vibration 2015.2 - present

Work as a Ph.D. candidature on transformer vibration and sound emission prediction. Using artificial neural network and gradient boosting regression tree.

- Audio architect, DuoYi network Technology Co., Ltd. 2014.7 - 2014.11

Work as a audio architect for internet audio instant communication software.

- Intern engineer, Forgreener Acoustics. 2014.9 - 2014.12

Work as an acoustics engineer for environmental noise control.

### Skills

- Data Mining and Machine learning algorithm, web spider
- Team work
- Experienced in Python, R, Matlab, C++
- Research, Architecture Acoustics, Finite Element Modelling

### Selected reference

Qin, M., Du, X., Tao, J., & Qiu, X. (2016). A study on the optimal English speech level for Chinese listeners in classrooms. *Applied Acoustics*, 104, 50-56.

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