XUHAO DU (PETER)

+61 452 398 311
duxuhao88@gmail.com

X/XX XXXXX Road,
Shenton Park
WA, 6008

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, Physics 2010.9 - 2014.6

Data Competition Experience

- Rong360 Internet financial Competition — rank: 1st/900 2016.8 - 2016.10

Predict user's willing of second loan based on the their information
key: *presentation, *xgboost, *Cross features construction and *Model ensemble
https://github.com/duxuhao/rong360-season2

- DiDi taxi demand prediction —rank: 19/1200+ 2016.5 - 2016.6

Predict the demand and supply gap based on the time and space data
keys: *Feature engineering and *Sample expansion.
https://github.com/duxuhao/didi---Tech

- China Unicom demand prediction — rank: 8/700+ 2016.3 - 2016.4

Predict user's smartphone update pattern based on their plan consumption.
keys: *Web spider and *GBDT
https://github.com/duxuhao/wo-plus-competition

Work Experience

- Ph.D., Centre of Acoustics, Dynamic and Vibration 2016.2 - present

Work as a Ph.D. candidature on transformer vibration and sound prediction.
Using neural network, genetic and gradient boosting regression tree algorithm.
https://github.com/duxuhao/GA-TF
https://github.com/duxuhao/Magnetization_Curve_Calculation_Using_ANN_SVM

- 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.

- Guangzhou No.2 middle school & Nanjing University 2007 - 10 & 2011-12

Administrator of Student Union

Skills

- Data Mining and Machine learning algorithm, Web Spider, Spark, Cloud cluster
- Team work, Presentation and communication
- Experienced in Python, R, Matlab, C++, Javascript
- Research, Audio Acoustics, 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.