



PROFILE

YiFan Zhang is currently a Postdoctoral Fellow with CSIRO, Digital Agriculture. His interests include artificial intelligence, time series modeling, cloud computing and the Internet of Things.



CONTACT



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YIFAN ZHANG

Postdoctoral Fellow

Deep Learning Expert in:
Prediction | Anomaly Detection | Classification

EXPERIENCE

CSIRO POSTDOCTORAL FELLOW

Future Science Platform | July 2017- present

Some of my achievement include:

- Designing and developing a real-time big data monitoring system
 - AWS Lambda/S3 programming
 - SQL/NoSQL database API programming
 - Anomaly detection model development
 - Demo: www.1622.farm
- Deep learning modelling
 - Expertise in ANN/LSTM/Attention-based/CNN/AE.....
 - Apply models in crop/environmental forecasting, anomaly detection, crop classification, data denoising.....
 - Pytorch/Tensorflow and other ML/statistic packages
 - End-to-End project development on AWS Sagemaker
 - Demo: SSIM (PyTorch, https://github.com/ivivan/SSIM_Seq2Seq)
MTCN (Tensorflow, <https://github.com/ivivan/MTCN>)

BIG DATA SPECIALIST

SilverRail Tech--Expedia | October 2016- June 2017

Some of my achievement include:

- Design and test a real-time searching engine for rail tickets booking. The prototype is built completely on open source systems, including Hadoop/Hbase/Phoenix/Redis
 - NoSQL data storage partition/optimization in Hbase/Hadoop
 - Data cacheing strategy design

PROFESSIONAL ACHIEVEMENTS

Google Scholar: <https://bit.ly/31KleG3>

- International Conferences, such as PAKDD, ICONIP, ICCS, MODSIM
- Top Tier Journals, such as IEEE IOTJ, FGCS
- Two Big Data/Cloud Computing Patents

EDUCATION

QUEENSLAND UNIVERSITY OF TECHNOLOGY

2012-2016

PhD in Data Science (Cloud Computing)

BEIJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS

2004-2011

Bachelor in Spacecraft Engineering/Master in Software Engineering