John Worrall

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Principle Analyst - **DTMR.** Brisbane, 11/18 - Current
Created real time incident reporting and passenger transport impacts application for traffic operators to decrease their assessment and response time. Develop pipelines and manage deployment on AWS platform including flexible backend & frontend. Manage team and successfully lead piloted cloud project for Department of Transport Main Roads (Python, JS- React/D3/Deck.gl, Postgres-RDS, lambda, S3, Athena)
https://github.com/jaworra/Real-Time-Incident-Reporting

Senior Analyst - **DTMR.** Brisbane, 07/18 - 11/18
Deliver quality data analytics via develop models to provide high quality analysis of complex datasets and use a variety of geospatial, analytical and presentation tools. (Python, Alteryx, Tableau, AWS, Postgres)

Analyst - **DTMR.** Brisbane, 11/17 - 07/18
Modeling and visualization for decision making, such as road maintenance program. Team winner of customer focus KPMG hackathon.(Alteryx, Tableau, Python, Postgres, R)
https://github.com/jaworra/Hackathon-KPMG

Freelancer – messanalytics.org. Independent, 01/16
Communicate mathematical concepts clearly and concisely, addressing individual student strengths and weaknesses. (10-12 Maths B,C, undergraduate Algebra & Calculus) https://messanalytics.org/services.html

Spatial Analyst - **DTMR.** Brisbane, 01/12 - 11/17
Managing geospatial distributed customizable code, in-depth modeling and presentation on a number of projects. (C#, PyQGIS, ArcPy, Mapbasic, PLSQL, FME, Batch, Powershell, LAStools)

Spatial Scientist - DTMR. Rockhampton, 01/07 - 11/12
Design and develop programs and scripts for automation, completion of graduate program. (Python, C#, Mapbasic, MsAccess, VBA)

EDUCATION

PhD Student in Computational Statistics and Applied Probability - expected to complete in 2023
Queensland University of Technology | School of Mathematical Sciences

MSc Applied Mathematics
University of Southern Queensland, 2018

BSc Mathematics
University of Southern Queensland, 2016

BSc Spatial Science, Hons
University of Southern Queensland, 2013

AWARDS

AWS Developer associate certification, KPMG hackathon winner 2018, GISP–AP (Geographic Information Systems Professional – Asia Pacific, President of Young Professional Queensland Regional committee.

PUBLICATIONS

Worrall, John (2012), *Assessing Rockhampton City 2011 Flood Extents and Impacts using Remote Sensing and GIS*, USQ Research 2011. Spatial Science Symposium 2012.

Worrall, John (2018), *An ensemble-ANFIS and a hybrid SOM-ANFIS based model for stock market variable forecasting*, USQ Research 2018.

Worrall, John (2020), *Road incident and traffic monitoring in low latency environment for intelligent decision making*, ITS Asia Pacific Conference 2020, Brisbane, Australia. (Conference canceled, COVID-19)