

Monash University - UQ - QCIF training partnership in data science and AI

Presented by Titus Tang, DSAI platform, Monash University

Collaboration partners: Dr Nick Hamilton - University of Queensland

Mark Crowe - Queensland Cyber Infrastructure Foundation (QCIF)

Funded by the ARDC via the “*Environments to Accelerate Machine Learning Based Discovery Platform*”.



Workshop sharing arrangement

- Diverse variety of workshop content across institutions.
- Workshop sharing facilitates training at scale.
 - Allows attendees a wider range of choices.
 - Reduces need to repeat content development.
 - Facilitates knowledge sharing between institutions.
 - Enables trainer upskilling.
- Each workshop has 20-40 attendees.
- 5 seats shared per workshop.
- Table shows workshops shared for second half of 2020.
- High demand: ~10x on waiting list relative to seats.
- Difficulties:
 - Availability of trainers and teaching assistants.
 - Availability of experts in each area of expertise.

Event	Host	Host Institution	Seats shared
Intro to DL and TensorFlow	Titus Tang	Monash	5
Deep Learning for NLP	Titus Tang	Monash	5
Visualisation and Storytelling	Titus Tang, Daniel Waghorn	Monash	5
Introduction to Graph Visualisation	Nick Hamilton	UQ-QCIF	5
Intro to DL and TensorFlow	Titus Tang, Aryan Faghihi	Monash	5
Deep Learning for NLP	Titus Tang, Aryan Faghihi	Monash	5
Linear regression in R	Mark Crowe	UQ-QCIF	5
Linear mixed models in R	Mark Crowe	UQ-QCIF	5
Intro to DL and TensorFlow	Titus Tang	Monash	National
Linear regression in R	Mark Crowe	UQ-QCIF	5
Visualisation and Storytelling	Titus Tang, Daniel Waghorn	Monash	5
Linear mixed models in R	Mark Crowe	UQ-QCIF	5
Introduction to Graph Visualisation	Nick Hamilton	UQ-QCIF	5
Intro to DL and TensorFlow	Titus Tang, Aryan Faghihi	Monash	5
Deep Learning for NLP	Titus Tang, Aryan Faghihi	Monash	5
Deep Learning for NLP	Titus Tang	Monash	National
Visualisation and Storytelling	Titus Tang, Daniel Waghorn	Monash	National
Intro to DL and TensorFlow	Titus Tang, Mitchell H.	Monash	5
Deep Learning for NLP	Titus Tang, Mitchell H.	Monash	5
AI with Deep Learning (PyTorch)	Titus Tang, Mitchell H.	Monash	5
Semi Supervised Deep Learning	Titus Tang	Monash	National

Workshops for second half of 2020

Bigger Picture

- Sharing of workshop content between institutions.
- “Teacher-exchange” of teaching assistants.
- “Train-the-trainers” events to enable independent running of workshops at partner institutions.
- Formalise trainer upskilling programs to train trainers and teaching assistants at scale.
- Run workshops on a more regular basis to meet demand.
- Open collaborations to the wider community to scale training capabilities.