



2nd Big Data Africa School

10 – 17 September 2018

Monkey Valley Resort, Noordhoek, Cape Town, South Africa

Industry Session,
 Lecture,
 Projects Sessions,
 Student Presentations
 Social Activity

	Monday 10 Sep	Tuesday 11 Sep	Wednesday 12 Sep	Thursday 13 Sep	Friday 14 Sep	Saturday 15 Sep	Sunday 16 Sep	Monday 17 Sep
09h00 -10h30		Introductions (30 mins) Dr Bonita de Swardt (SARAO) Using Python for Data Science - tools & techniques (1hr) Dr Anna Scaife (University of Manchester)	Data Visualization (1.5hr) Dr Colin Clark (Max Planck Institute for Gravitational Physics - Albert Einstein Institute)	Statistical Methods for Machine Learning (1.5hr) Dr Landman Bester (SARAO)	Invited Guest Speaker: Impact Science in the era of Big Data Dr Bruno Sánchez-Andrade Nuño VP Impact at Satellogic (1.5hr)	Students practical sessions (1.5hr)	Students practical sessions (1.5hr)	Final Student Project Presentations (1.5hr) Facilitated by Dr Tana Joseph (University of Manchester) & Dr Valerio Ribeiro (CIDMA/IT, Aveiro University)
10h30 – 11h00		Tea Break	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break

11h00 – 12h30		Using Python for Data Science - tools & techniques Tutorial Session (1.5hr) Dr Anna Scaife (University of Manchester)	Introduction to Machine Learning (1.5hr) Dr Yabebal Fantaye (AIMS)	Students practical sessions (1.5hr) (Venues 1 & 2)	Students practical sessions (1.5hr) (Venues 1 & 2)	Continue practical sessions (1.5hrs) (Venues 1 & 2)	Continue practical sessions (1.5hrs) (Venues 1 & 2)	Continued Student Project Presentations (1.5hr) Final words & Farewell (Auditorium) End of school
12h30 – 13h30		Lunch (Group Photo)	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13h30 – 15h00		Brief presentations of Projects (30mins) Facilitated by Dr Bonita de Swardt (SARAO) IDIA Cloud Tutorial Led by Tyrone van Balla & Chris Finlay (SARAO) (1hr)	Students practical sessions (1.5hr) (Venues 1 & 2)	Careers Session – Essential Skills for Industry (1.5hr) Heidi Duveskog - Director of Contextualize (Pty) Ltd	Continue practical sessions (1.5hrs) (Venues 1 & 2)	Continue practical sessions (1.5hrs) (Venues 1 & 2)	Continue practical sessions (1.5hrs) (Venues 1 & 2)	Students depart
15h00 – 15h30		Tea Break	Tea Break	Tea Break	Tea Break	Tea Break	Tea Break	

15h30 – 17h30		Principles of Data Wrangling (1hr) Led by Chris Finlay Break into groups at 5pm to start working on projects	Continue practical sessions (2hr) (Venues 1 & 2)	Careers Session – Essential Skills for Industry (1.5hr) Heidi Duveskog - Director of Contextualize (Pty) Ltd Session finishes at 5pm	Continue practical sessions (2hr) (Venues 1 & 2)	Continue practical sessions (2hrs) (Venues 1 & 2)	Continue practical sessions (2hrs) (Venues 1 & 2)	
17h30 – 18h30	Welcome Reception starts at 5pm Facilitated by Dr Bonita de Swardt (SARAO) Short speeches at 6pm by: 1. Dr Bernie Fanaroff (Former Project Director of SKA SA) 2. Mr Ben Boddy (Representative of British Consulate-General) 3. Mr Khaya Sishuba (DST	Introduction to Data Sets and Formulating questions around data sets – (2hr) (Venues 1 & 2)	Group Feedback sessions on projects (challenges, approach to problem, what they have learnt, etc) – (1hr) Facilitated by Dr Tana Joseph (University of Manchester) & Dr Valerio Ribeiro (CIDMA/IT, Aveiro University) (Venues 1 &	Industry Partners starts at 5.15pm Mr Graham Maart (IBM) “ Global Technology Trends, taking ownership of your career as a data scientist – IBM Tools & Recourses ” Dr Monika Obrocka (Praekelt) – “Life as a Data Scientist ”	Group Feedback sessions on projects (challenges, approach to problem, what they have learnt, etc) – (1hr) Facilitated by Dr Tana Joseph (University of Manchester) Dr Valerio Ribeiro (CIDMA/IT, Aveiro University) (Venues 1 &	Group Feedback sessions on projects (challenges, approach to problem, what they have learnt, etc) – (1hr) Facilitated by Dr Tana Joseph (University of Manchester) Dr Valerio Ribeiro (CIDMA/IT, Aveiro University) (Venues 1 &	Group Feedback sessions on projects (challenges, approach to problem, what they have learnt, etc) – (1hr) Facilitated by Dr Tana Joseph (University of Manchester) Dr Valerio Ribeiro (CIDMA/IT, Aveiro University) (Venues 1 &	

	Director - Bi-lateral Partnerships)		2)		2)	2)	2)	
19h00	DARA Big Data Overview talk – Anna Scaife (15mins) followed by Dinner	Dinner	Dinner	Social Networking Braai	Dinner	Dinner	Dinner	