

eResearch Africa 2019



MONDAY, 15 APRIL 2019

VENUE
[Library Learning Lounge](#)
[Level one](#)
TIME [Snape Building](#)
[Upper Campus](#)
[University of Cape Town](#)

08:00-09:00 Registration (tea and coffee on arrival)

VENUE
 LT 3B
 Snape Building

VENUE
 LT 3C
 Snape Building

VENUE
 LT 1
 Snape Building

09:00-10:30 [ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING WORKSHOP FOR DATA SCIENCE DEVELOPMENT](#)
[Innocent Mamvura](#)

Data wrangling

[SOFTWARE CARPENTRY WORKSHOP: TEACHING COMPUTING SKILLS TO RESEARCHERS - Day 1](#)
[Adrianna Pinska; Martin Dreyer; Malahlela Mojalefa; Meghan Sinclair-Black](#)

The Unix Shell: automating tasks and creating pipelines to process data on the commandline

10:30-11:00

Break
(Library Learning Lounge)

11:00-11:30

11:30-12:00 Unsupervised Learning

The Unix Shell: automating tasks and creating pipelines to process data on the commandline

12:00-12:30

12:30-13:30

Lunch
(Library Learning Lounge)

13:30-14:00

14:00-14:30

Supervised Learning

Plotting and Programming in Python: an
introduction to programming and data analysis in
Python, a popular high-level language

Clarivate Analytics User Group Meeting
(By invitation only)
Vicki Ricart

14:30-15:00

15:00-15:30

Break
(Library Learning Lounge)

15:30-16:00

Supervised Learning

Plotting and Programming in Python: an
introduction to programming and data analysis in
Python, a popular high-level language

Clarivate Analytics User Group Meeting
(By invitation only)
Vicki Ricart

16:00-16:30

eResearch Africa 2019



TUESDAY, 16 APRIL 2019

TIME
[VENUE](#)
[Library Learning Lounge](#)
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08:00-09:00 Registration (tea and coffee on arrival)

VENUE	VENUE	VENUE
LT 3B Snape Building	LT 3C Snape Building	LT 1 Snape Building

09:00-10:30	<p>RESEARCH DATA SYSTEMS: HELP OR HINDRANCE IN DATA SHARING? Dale Peters; Paolo Manghi; Mark Hahnel ; Vicki Ricart; Nabil Ksibi Chairperson: Nikki Crowster</p> <p>Introduction of key stakeholders, including software vendors, service providers, publishers and funders.</p>	<p>SOFTWARE CARPENTRY WORKSHOP: TEACHING COMPUTING SKILLS TO RESEARCHERS - Day 2 Adrianna Pinska; Martin Dreyer; Malahlela Mojalefa; Meghan Sinclair-Black</p> <p>Plotting and Programming in Python: an introduction to programming and data analysis in Python, a popular high-level language</p>	<p>LARGE DATA TRANSFER: CAN WE HELP YOU MOVE YOUR LARGE DATA SETS? Kasandra Pillay, Sakhi Hadebe, Renier van Heerden, Johann Hugo</p> <p>Topic 1: Networking challenges and Data Transfer Architecture: The Science DMZ Model Topic 2: Large Data Transfer tools: Globus, SCP, Filesender</p>
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10:30-11:00 **Break (Library Learning Lounge)**

11:00-11:30	Development of the research infrastructure in the next 3-5 years	Plotting and Programming in Python: an introduction to programming and data analysis in Python, a popular high-level language	Topic 3: Perfsonar and other bandwidth measuring tools
11:30-12:00	Open Science case studies		Topic 4: SANReN Data Transfer Pilot service Proof of Concept: Progress, Results, Next steps
12:00-12:30	The way forward – a roadmap for research support services		Q&A
12:30-13:30	Break (Library Learning Lounge)		
	FIGSHARE FEST AFRICA Kayleigh Lino		SCIENCE COMMUNICATION WORKSHOP Natalie Simon
13:30-14:00	Figshare update: new released features, roadmap plans	Version control with Git: an introduction to backing up work and collaborating with other researchers using Git and GitHub	Communicating in plain English
14:00-14:30	Figshare as an IR: a focus on adaptation, migration, and integration		
14:30-15:00	Open Data Curation: towards a shared framework for the review of non-traditional research outputs		Finding the news hook
15:00-15:30	Break (Library Learning Lounge)		
15:30-16:00	Institutional use cases: client presentations on engagement and other user experiences	Version control with Git: an introduction to backing up work and collaborating with other researchers using Git and GitHub	Using social media effectively
16:00-16:30			
18:00-20:00	SOCIAL EVENT IZIKO PLANETARIUM AND DIGITAL DOME		

eResearch Africa 2019



WEDNESDAY, 17 APRIL 2019

TIME

VENUE

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08:00-09:00 Registration (tea and coffee on arrival)

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09:00-10:30

PLENARY 1

Official Opening: DVC Research and Internationalisation, UCT

[Sponsorship NPO: Emma Kaye, Cape Digital Foundation](#)

[Keynote Plenary: The future of research infrastructures](#)

[Tiziana Ferrari, EGI Foundation](#)

10:30-11:00

Break

(Library Learning Lounge)

VENUE

LT 3B

Snape Building

VENUE

LT 3C

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11:00-12:30	SESSION 1A: THE NEXT GENERATION OF DATA SCIENTISTS: EDUCATION MODELS FROM UNIVERSITIES, SUMMER SCHOOLS, BOOT CAMPS, AND HANDS-ON TRAINING PROGRAMMES. Chairperson: Tiziana Ferrari	SESSION 1B: eRESEARCH CASE STUDIES Chairperson: Renate Meyer
11:00-11:30	An Update: Establishment of a National Integrated Cyberinfrastructure System (NICIS) Daniel Adams	Steps towards harmonising data from multiple health and demographic surveillance systems in South Africa: creating a national research infrastructure Taurayi Mudzana, Kobus Herbst
11:30-12:00	The role of national infrastructures in promoting the re-use of data and scientific software and empowering the next generation of researchers Attie de Lange, Juan Steyn	Put the researcher first: reporting on an enabling journey Martin Dreyer, Zine Sapula
12:00-12:30	Astronomy as a platform for data skills development Vanessa Mc Bride, Kevin Govender, Ramasamy Venugopal	Dimensions: Building a search experience for today's researcher Sara Grimme
12:30-13:30	Lunch (Library Learning Lounge)	
13:30-15:15	SESSION 2A: THE NEXT GENERATION OF DATA SCIENTISTS: EDUCATION MODELS FROM UNIVERSITIES, SUMMER SCHOOLS, BOOT CAMPS, AND HANDS-ON TRAINING PROGRAMMES. Chairperson: Associate Professor Freedom Gumedze	SESSION 2B: eRESEARCH CASE STUDIES Chairperson: Nikki Crowster
13:30- 14:00	The case for NREN's Duncan Greaves	Relevance and Responsibility in Research Information Management Caroline Birkle
14:00-14:30	Strategic positioning of a multidisciplinary data science curriculum for graduate employment prospects Carolina Ödman	Catalysing African research: the strategic imperative to optimise shared facilities Renate Meyer

14:30-15:00	mGenAfrica, an online tool for genomics education: tackling the STEM shortage in our youth Verena Ras	Using a knowledge management tool to facilitate engaged scholarship for societal impact: the case of Stellenbosch University Joanne Williams
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15:00-15:30	Break (Library Learning Lounge)	
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15:30-16:30	SESSION 3A: THE NEXT GENERATION OF DATA SCIENTISTS: EDUCATION MODELS FROM UNIVERSITIES, SUMMER SCHOOLS, BOOT CAMPS, AND HANDS-ON TRAINING PROGRAMMES. Chairperson: Niklas Zimmer	SESSION 3B: THE DARK SIDE OF DATA: THREATS TO PRIVACY AND CONFIDENTIALITY; MISINFORMATION; CYBERSECURITY Chairperson: Lyn Horn
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15:30-16:00	Implementation and evaluation of a blended learning training model for African Bioinformatics education Paballo Chauke, Verena Ras, Shaun Aron	Exploring the influence of organisational, environmental, and technological factors on information security policies and compliance at South African Higher Educational Institutions, with a focus on implications for biomedical research. Oluwafemi Abiodun, Dominique Anderson, Alan Christoffels
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16:00-16:30	Towards an educational model for data scientists in Higher Education Institutions (HEIs) in South Africa Patricia Chikuni	Digital health data governance to protect vulnerable populations in low and middle income countries <i>Nicki Tiffin</i>
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16:30-17:00	CODATA/RDA Schools in Research Data Science: Teaching Responsible and Open Data Science Practices Louise Bezuidenhout	
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eResearch Africa 2019



THURSDAY, 18 APRIL 2019

TIME

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08:00 - 09:00 Registration (tea and coffee on arrival)

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Level one
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09:00 - 09:45 **PLENARY 2** : *Has decision-making changed in the 21st century? A reflection on the link between ICT, Our Gut and Big Data*
Ulrike Rivett, School of Information Technology, UCT

09:45-10:45 **SESSION 4A: BIG DATA ANALYTICS, AND IMPACT OF TECHNOLOGY ON SOCIETY**
Chairperson: Ulrike Rivett

09:45-10:15 [The role of big data, analytics, technology and impact on society](#)
[Progress Mtshali, Sibusiso Moyo](#)

10:15-10:45 [Evaluation of clustering techniques for generating household energy consumption patterns in a developing country](#)
[Wiebke Toussaint](#)

10:45-11:15

**Break
(Library Learning Lounge)**

VENUE
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Snape Building

11:15-12:45

**SESSION 5A: BIG DATA ANALYTICS, AND IMPACT OF TECHNOLOGY
ON SOCIETY**
Chairperson: Taariq Surtee

11:15-11:45

[Remote sensing data, machine learning and citizen science for
development in sub-Saharan Africa \(SSA\)](#)
[Tawanda Chingozha, Dieter von Fintel](#)

11:45-12:15

[The Data2Dome initiative at the Iziko Planetarium and the IDIA
visualisation lab](#)
[Lucia Marchetti](#)

12:15-12:45

[A deep reinforcement approach to autonomous driving among
human drivers](#)
[Zenzo Ncube, Nontokozi Mpofu, Armstrong Kadyamatimba](#)

12:45-13:45

**Lunch
(Library Learning Lounge)**

13:45-15:15

**SESSION 6A: BIG DATA ANALYTICS, AND IMPACT OF TECHNOLOGY
ON SOCIETY**
Chairperson: Wiebke Toussaint

13:45-14:15

[Galaxy for accessible, reproducible bioinformatics on the Ilifu
Research Cloud](#)
[Peter van Heusden, Alan Christoffels](#)

SESSION 5B: MISSING MAPS MAPATHON: CYCLONE IDAI
Chairperson: Renate Meyer

SESSION 5B: MISSING MAPS MAPATHON: CYCLONE IDAI

Chairperson: Renate Meyer

14:15-14:45 [Registree: using blockchain technology to connect universities, students and employers](#)
[Allan Davids](#)

14:45-15:15 [Starting up an eResearch office: supporting researchers with varying degrees of experience](#)
[Jonathan Padavatan, Taariq Surtee](#)

15:15-15:30

Closing Session and Lucky Draw

Thank you to our eResearch Africa 2019 sponsors



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