

# 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

Workshop title TBC

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

Version Control with Git: an introduction to  
backing up work and collaborating with other  
researchers using Git and GitHub

Clarivate User Group Meeting

14:30-15:00

15:00-15:30

**Break**  
**(Library Learning Lounge)**

15:30-16:00

Supervised Learning

Version Control with Git: an introduction to  
backing up work and collaborating with other  
researchers using Git and GitHub

16:00-16:30

# eResearch Africa 2019



**TUESDAY, 16 APRIL 2019**

<b>TIME</b>	<b>VENUE</b> Library Learning Lounge Level one Snape Building Upper Campus University of Cape Town
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08:00-09:00 Registration (tea and coffee on arrival)

<b>VENUE</b> LT 3B Snape Building	<b>VENUE</b> LT 3C Snape Building	<b>VENUE</b> LT 1 Snape Building
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09:00-10:30	<p><a href="#"><u>RESEACH DATA SYSTEMS: HELP OR HINDRANCE IN DATA SHARING?</u></a> <a href="#"><u>Dale Peters; Mark Hahnel ; Vicki Ricart;</u></a></p> <p>Introduction of key stakeholders, including software vendors, service providers, publishers and funders.</p>	<p><a href="#"><u>SOFTWARE CARPENTRY WORKSHOP: TEACHING COMPUTING SKILLS TO RESEARCHERS - Day 2</u></a> <a href="#"><u>Adrianna Pinska; Martin Dreyer; Malahlela Mojalefa; Meghan Sinclair-Black</u></a></p> <p>Plotting and Programming in Python: an introduction to programming and data analysis in Python, a popular high-level language</p>	<p><a href="#"><u>LARGE DATA TRANSFER: CAN WE HELP YOU MOVE YOUR LARGE DATA SETS?</u></a> <a href="#"><u>Kasandra Pillay, Sakhi Hadebe, Renier van Heerden, Johann Hugo</u></a></p> <p>Networking challenges and Data Transfer Architecture: The Science DMZ Model</p>
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**Break (Library Learning Lounge)**

11:00-11:30	<p>Development of the research infrastructure in the next 3-5 years</p>	<p>Plotting and Programming in Python: an introduction to programming and data analysis in Python, a popular high-level language</p>	<p>SANReN Data Transfer Pilot service Proof of Concept: Progress, Results, Next steps</p>
11:30-12:00	<p>Open Science case studies</p>		<p>Large Data Transfer tools: Globus, SCP, Filesender</p>

12:00-12:30	The way forward – a roadmap for research support services		Perfsonar and other bandwidth measuring tools. Q&A
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12:30-13:30 <b>Break (Library Learning Lounge)</b>			
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[FIGSHARE FEST AFRICA](#)  
[Kayleigh Lino](#)

[SCIENCE COMMUNICATION WORKSHOP](#)  
[Natalie Simon](#)

13:30-14:00	Figshare update: new released features, roadmap plans
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Plotting and Programming in Python: an introduction to programming and data analysis in Python, a popular high-level language

Communicating in plain English

14:00-14:30	Figshare as an IR: a focus on adaptation, migration, and integration
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Finding the news hook

14:30-15:00	Open Data Curation: towards a shared framework for the review of non-traditional research outputs
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15:00-15:30 <b>Break (Library Learning Lounge)</b>			
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15:30-16:00	Institutional use cases: client presentations on engagement and other user experiences
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Plotting and Programming in Python: an introduction to programming and data analysis in Python, a popular high-level language

Using social media effectively

16:00-16:30
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18:00-20:00
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**SOCIAL EVENT IZIKO PLANETARIUM AND DIGITAL DOME**

# eResearch Africa 2019



WEDNESDAY, 17 APRIL 2019

TIME

VENUE

Library Learning Lounge  
Level one  
Snape Building  
Upper Campus  
University of Cape Town

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

VENUE

LT 1  
Snape Building

09:00-10:30

**PLENARY 1**

**Official Opening: DVC Research and Internationalisation, UCT**

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

13:30-15:15

[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  
Snape Building

11:00-12:30	<b>SESSION 1A: THE NEXT GENERATION OF DATA SCIENTISTS: EDUCATION MODELS FROM UNIVERSITIES, SUMMER SCHOOLS, BOOT CAMPS, AND HANDS-ON TRAINING PROGRAMMES.</b> Chairperson: Tiziana Ferrari	<b>SESSION 1B: eRESEARCH CASE STUDIES</b> Chairperson: tbc
11:00-11:30	<a href="#">CODATA/RDA Schools in Research Data Science: Teaching Responsible and Open Data Science Practices</a> <a href="#">Louise Bezuidenhout</a>	<a href="#">Steps towards harmonising data from multiple health and demographic surveillance systems in South Africa: creating a national research infrastructure</a> <a href="#">Taurayi Mudzana, Kobus Herbst</a>
11:30-12:00	<a href="#">The role of national infrastructures in promoting the re-use of data and scientific software and empowering the next generation of researchers</a> <a href="#">Attie de Lange, Juan Steyn</a>	<a href="#">Put the researcher first: reporting on an enabling journey</a> <a href="#">Martin Dreyer, Zine Sapula</a>
12:00-12:30	<a href="#">Astronomy as a platform for data skills development</a> <a href="#">Vanessa Mc Bride, Kevin Govender, Ramasamy Venugopal</a>	<a href="#">Catalysing African research: the strategic imperative to optimise shared facilities</a> <a href="#">Renate Meyer</a>
12:30-13:30	<b>Lunch</b> <b>(Library Learning Lounge)</b>	
13:30-15:15	<b>SESSION 2A: THE NEXT GENERATION OF DATA SCIENTISTS: EDUCATION MODELS FROM UNIVERSITIES, SUMMER SCHOOLS, BOOT CAMPS, AND HANDS-ON TRAINING PROGRAMMES.</b> Chairperson: tbc	<b>SESSION 2B: eRESEARCH CASE STUDIES</b> Chairperson: tbc
13:30- 14:00	Sponsorship	Sponsorship
14:00-14:30	<a href="#">Strategic positioning of a multidisciplinary data science curriculum for graduate employment prospects</a> <a href="#">Carolina Ödman</a>	<a href="#">Using a knowledge management tool to facilitate engaged scholarship for societal impact: the case of Stellenbosch University</a> <a href="#">Joanne Williams</a>

14:30-15:00 [mGenAfrica, an online tool for genomics education: tackling the STEM shortage in our youth](#)  
[Verena Ras, Vicky Nembaware, Kagisho Montjane](#)

15:00-15:30 **Break**  
**(Library Learning Lounge)**

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: tbc

**SESSION 3B: THE DARK SIDE OF DATA: THREATS TO PRIVACY AND CONFIDENTIALITY; MISINFORMATION; CYBERSECURITY**  
Chairperson: tbc

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](#)

16:00-16:30 [Towards an educational model for data scientists in Higher Education Institutions \(HEIs\) in South Africa](#)  
[Patricia Chikuni](#)

# eResearch Africa 2019



THURSDAY, 18 APRIL 2019

**TIME**

**VENUE**  
Library Learning Lounge  
Level one  
Snape Building  
Upper Campus  
University of Cape Town

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

**VENUE**  
LT 1  
Level one  
Snape Building

09:00 - 09:45

**PLENARY 2 : Presentation title tbc**  
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

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



10:45-11:15

**Break**  
**(Library Learning Lounge)**

11:15-12:45

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

11:15-11:45

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

11:45-12:15

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

12:15-12:45

Sponsorship

12:45-13:45

**Lunch**  
**(Library Learning Lounge)**

13:45-15:15

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

13:45-14:15

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

14:15-14:45

[Registree: using blockchain technology to connect universities,  
students and employers](#)  
[Christopher Maree](#)

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**