


QUANTUM LEAP AFRICA
FOUNDATIONAL METHODS IN DATA SCIENCE TRAINING SCHOOL
March 6th – April 2, 2022.
Kigali – Rwanda
Venue: University of Rwanda – Headquarters – Gikondo Campus
All lectures will be held in room 1R3 (hybrid participation).
The opening ceremony will be held in the main auditorium (in person participation only)
WEEK 1

WEEK 1 (Mar 7 – Mar 12)						
Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0730-0800	Registration – All participants, University of Rwanda Headquarter, Gikondo Campus					
0800-0845	Opening Ceremony - Auditorium, University of Rwanda Headquarter, Gikondo Campus					
0845-0900	Group photo					
0900-1000	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	Machine Learning Essentials - Philipp Berens	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	GDI Ingrid Lynch & Audrey Namdiero-Walsh
1000-1030	<i>Coffee break</i>					
1030-1130	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	Machine Learning Essentials - Philipp Berens	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	GDI Ingrid Lynch & Audrey Namdiero-Walsh
1130-1230	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	Mathematical Foundations for Data Science - Bubacarr Bah & Leon Bungert	Machine Learning Essentials - Philipp Berens	Machine Learning Essentials - Philipp Berens	RESEARCH TALK: Using continuum limits to understand data clustering and classification - Franca Hoffmann	Research I: skills course - Selene Delport & Willemien Theron
1230-1400	<i>Lunch break</i>					
1400-1500	Research II: The Importance of Communication - Willemien Theron	Research II: Planning and Organising - Willemien Theron	Research II: Presentation Skills and Public Speaking - Willemien Theron	Research I: skills course - Selene Delport	Research I: skills course - Selene Delport & Willemien Theron	Research I: skills course - Selene Delport & Willemien Theron
1500-1600	Research II: Why is Your Research Important and How do you Communicate It? - Willemien Theron	Research II: Using SMART principles - Willemien Theron	Research II: Presentation Skills and Public Speaking - Willemien Theron	Research I: skills course - Selene Delport	Research I: skills course - Selene Delport & Willemien Theron	Research I: skills course - Selene Delport & Willemien Theron
1600-1630	<i>Coffee break</i>					
1630-1730	Research II: Why is Your Research Important and How do you Communicate It? - Willemien Theron	Research II: Using the STAR method to communicate - Willemien Theron	Research II: Presentation Skills and Public Speaking - Willemien Theron	Research I: skills course - Selene Delport	Research I: skills course - Selene Delport & Willemien Theron	Research I: skills course - Selene Delport & Willemien Theron


QUANTUM LEAP AFRICA
WEEK 2

WEEK 2 (Mar 14-Mar 19)						
Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0830:8:50	<u>Opening Remarks – Prof. Franca Hoffmann</u>					
0850:0900	Group photo					
0900-1000	Machine Learning Essentials - Philipp Berens	Machine Learning Essentials - Philipp Berens	Optimisation for Data Science – Raphael Hauser	Optimisation for Data Science – Raphael Hauser	Optimisation for Data Science – Raphael Hauser	
1000-1030	<i>Coffee break</i>					
1030-1130	Machine Learning Essentials - Philipp Berens	Machine Learning Essentials - Philipp Berens	Optimisation for Data Science – Raphael Hauser	Optimisation for Data Science – Raphael Hauser	Optimisation for Data Science – Raphael Hauser	Training session
1130-1230	Machine Learning Essentials - Philipp Berens 12:30-12:45 Information Session: The StAfrica Incubarot Program Katharina Hartwig	Machine Learning Essentials - Philipp Berens	COLLOQUIUM Chaos Theory: Determinism and Randomness in Nature and Mathematics - Stefano Luzatto	Optimisation for Data Science – Raphael Hauser	Optimisation for Data Science – Raphael Hauser	Training session
1230-1400	<i>Lunch break</i>					
1400-1500	Optimisation for Data Science – Raphael Hauser	Methods from Control & Dynamical Systems – Tryphon T Georgiou	Methods from Control & Dynamical Systems – Tryphon T Georgiou	Methods from Control & Dynamical Systems – Tryphon T Georgiou	Methods from Control & Dynamical Systems – Tryphon T Georgiou	
1500-1600	Optimisation for Data Science – Raphael Hauser	Methods from Control & Dynamical Systems – Tryphon T Georgiou	Methods from Control & Dynamical Systems – Tryphon T Georgiou	Methods from Control & Dynamical Systems – Tryphon T Georgiou	Methods from Control & Dynamical Systems – Tryphon T Georgiou	
1600-1630	<i>Coffee break</i>					
1630-1730	Training session	Training session	Methods from Control & Dynamical Systems – Tryphon T Georgiou	Methods from Control & Dynamical Systems – Tryphon T Georgiou	Closing	
1730-1830	Training session	Training session		Training session		


QUANTUM LEAP AFRICA
WEEK 3

WEEK 3 (Mar 21-Mar 25)						
Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0830:0850	Opening Remarks –Prof. Franca Hoffmann					
0850:0900	Group photo					
0900-1000	Statistics & Scientific Methods – Peter J Diggle	Problem Solving with Data Science – David Stern	Statistics & Scientific Methods – Peter J Diggle	Statistics & Scientific Methods – Peter J Diggle	Problem Solving with Data Science – David Stern	
1000-1030	<i>Coffee break</i>					
1030-1130	Statistics & Scientific Methods – Peter J Diggle	Problem Solving with Data Science – David Stern	Statistics & Scientific Methods – Peter J Diggle	Statistics & Scientific Methods – Peter J Diggle	Problem Solving with Data Science – David Stern	
1130-1230	Statistics & Scientific Methods – Peter J Diggle	Problem Solving with Data Science – David Stern	Guest Speaker: Prince Osei	Statistics & Scientific Methods – Peter J Diggle	Problem Solving with Data Science – David Stern	
1230-1400	<i>Lunch break</i>					
1400-1500	Problem Solving with Data Science – David Stern	Statistics & Scientific Methods – Peter J Diggle	Research methodology session	Problem Solving with Data Science – David Stern	Training session	
1500-1600	Problem Solving with Data Science – David Stern	Statistics & Scientific Methods – Peter J Diggle	Research methodology session	Problem Solving with Data Science – David Stern	Training session	
1600-1630	<i>Coffee break</i>					
1630-1730	Training session	Training session	Research methodology session	Training session	Closing	
1730:1830	Training session	Training session		Training session		



QUANTUM LEAP AFRICA

WEEK 4

<u>WEEK 4 (Mar 28-April 1)</u>					
Time	Monday	Tuesday	Wednesday	Thursday	Friday
0900-1000	Presentations by selected training school participants	Presentations by selected training school participants	DATA SCIENCE WORKSHOP <i>From Theory to Practice</i>	DATA SCIENCE WORKSHOP <i>From Theory to Practice</i>	DATA SCIENCE WORKSHOP <i>From Theory to Practice</i>
1000-1100					
1100-1230					
1230-1400	Lunch		Lunch		Lunch
1400-1500	Presentations by selected training school participants	Presentations by selected training school participants	DATA SCIENCE WORKSHOP <i>From Theory to Practice</i>	DATA SCIENCE WORKSHOP <i>From Theory to Practice</i>	Departures
1500-1600					
1600-1730					

For details, see separate workshop schedule here <https://sites.google.com/view/t2p-workshop2022/home>