

# Graduate Modelling Camp Programme

Wednesday 15 January to Saturday 18 January 2025

<b>Wednesday 15 January 2025</b>	
8:00 – 9:00	<p><b>Registration</b>            Venue: Mathematical Sciences Building, West Campus            Loading presentations in New Commerce Building, Room 3</p>
9:00 – 9:15	<p>Official Opening and Welcome  <b>Venue:</b> New Commerce Building, Room 3  <b>Chair:</b> Erick Mubai            Welcome address: Professor Joel Moitsheki , Head,            School of Computer Science and Applied Mathematics            Organisation of the Modelling Camp</p>
9:15 – 11:00	<p><b>Chair:</b> Erick Mubai            Problem Presentations            20 minutes each presentation including questions</p>
	<ul style="list-style-type: none"> <li>• Mosquito-borne disease and control strategies Arsene Tasse</li> <li>• Fishermen versus little penguins Neville Fowkes</li> <li>• Barotrauma in bats from wind turbines Graeme Hocking</li> <li>• Identifying cluster structures in high-dimensional data Matthews Sejeso</li> <li>• Aerodynamics of lift generation David Mason</li> <li>• Tsunami Thama Duba and Erick Mubai</li> </ul>
11:00 – 11:30	<p><b>Morning tea</b>  <b>Venue:</b> Common Room, Upper Ground (UG) Floor,            Mathematical Sciences Building</p>

11:30 – 13:00	Formation of Study Groups and room allocation Study Group meetings Students work under supervision
13:00 – 14:00	<b>Lunch</b> <b>Venue:</b> Common Room, UG Floor, Mathematical Science Building
14:00 – 15:30	Study Group meetings Students work under supervision
15:30 – 16:00	<b>Afternoon tea</b> <b>Venue:</b> Mathematical Sciences Common Room
16:00 – 17:00	Study Group meetings
17:00 – 18:00	<b>Dinner</b> <b>Venue:</b> Convocatoon Dining Hall, West Campus
18:30 – 21:00	Evening Session Study Group meetings
<b>Thursday 16 January 2025</b>	
8:30 – 9:30	Progress Reports (10 minutes each) <b>Venue:</b> New Commerce Building, Room 3 <b>Chair:</b> Neville Fowkes <ul style="list-style-type: none"> <li>• Mosquito nets</li> <li>• Fishermen versus penguins</li> <li>• Barotrauma in bats</li> <li>• Cluster structures in data</li> <li>• Generation of lift</li> <li>• Tsunami</li> </ul>
9:30 – 11:00	Study Group meetings Planning the work for the day
11:00 – 11:30	<b>Morning tea</b> <b>Venue:</b> Mathematical Sciences Common Room
11:30 – 13:00	Study Group meetings
13:00 – 14:00	<b>Lunch</b> <b>Venue:</b> Mathematical Sciences Common Room
14:00 – 15:30	Study Group meetings
15:30 – 16:00	<b>Afternoon tea</b> <b>Venue:</b> Mathematical Sciences Common Room

16:00 – 17:00	Study Group meetings
17:00 – 18:00	<b>Dinner</b> <b>Venue:</b> Convocation Dining Hall, West Campus
18:30 – 21:00	Evening Session Study Group meetings
<b>Friday 17 January 2025</b>	
8:30 – 9:30	Progress Reports (10 minutes each) <b>Venue:</b> New Commerce Building Room 3 <b>Chair:</b> Matthews Sejeso <ul style="list-style-type: none"> <li>• Mosquito nets</li> <li>• Fishermen versus penguins</li> <li>• Barotrauma in bats</li> <li>• Cluster structures in data</li> <li>• Generation of lift</li> <li>• Tsunami</li> </ul>
9:30 – 11:00	Study Group meetings Planning the work of the day
11:00 – 11:30	<b>Morning tea</b> <b>Venue:</b> Mathematical Sciences Common Room
11:30 – 13:00	Study Group meetings
13:00 – 14:00	<b>Lunch</b> <b>Venue:</b> Mathematical Sciences Common Room
14:00 – 15:30	Study Group meetings
15:30 – 16:00	<b>Afternoon tea</b> <b>Venue:</b> Mathematical Sciences Common Room
16:00 – 17:00	Study Group meetings
17:00 – 18:00	<b>Dinner</b> <b>Venue:</b> Convocation Dining Hall, West Campus
18:30 – 21:00	Evening Session Study Group meetings
<b>Saturday 18 January 2025</b>	
8:30 – 9:00	Study Group meetings Planning the work of the day

9:00 – 11:00	Study Group meetings
11:00 – 11:30	<b>Morning tea</b> <b>Venue:</b> Mathematical Sciences Common Room
11:30 – 13:00	Study Group meetings Preparation of presentations
13:00 – 14:00	<b>Lunch</b> <b>Venue:</b> Mathematical Sciences Common Room
14:00 – 15:00	Formal presentation of results (30 minutes each) <b>Venue:</b> New Commerce Building, Room 3 <b>Chair:</b> Erick Mubai <ul style="list-style-type: none"> <li>• Mosquito nets</li> <li>• Fishermen versus penguins</li> <li>• Barotrauma in bats</li> </ul>
15:15 – 15:45	<b>Afternoon tea</b> <b>Venue:</b> Mathematical Sciences Common Room
	<ul style="list-style-type: none"> <li>• Cluster Structures in data</li> <li>• Generation of lift</li> <li>• Tsunami</li> </ul>
17:00	<b>Closing:</b> David Mason
17:00 – 18:00	<b>Dinner</b> <b>Venue:</b> Convocation Dining Hall, West Campus
18:00	Free evening
<b>Sunday 19 January 2025</b>	
Free day	Arrival of MISG participants