

## The use of Machine Learning models in Behaviour, Ecology & Evolution

9 & 10 March 2021, online with Webex

Organizers: Dr Andrés Quinones Paredes, Universidad de los Andes, Colombia, and Prof. Klaus Zuberbühler, University of Neuchâtel

Tuesday March 9 <sup>th</sup>				
9:15	<p><b>Please use the following Webex link to join the event:</b>  <a href="https://unine.webex.com/unine/j.php?MTID=m669478cac1dc1dc7ac916c927bfeb936">https://unine.webex.com/unine/j.php?MTID=m669478cac1dc1dc7ac916c927bfeb936</a>            Meeting number (access code): 181 066 4279            Meeting password: wQCgSVP3r33</p>			
9:20	Welcome			
9:30	<p><b>Prof. Florian Hartig</b>, Regensburg University, Germany  <i>"Causality and inference in machine learning"</i></p>			
10:30	Break			
11:00	<p><b>Prof. Magnus Enquist</b>, Stockholm University, Sweden  <i>" Learning theory and behavior ecology "</i></p>			
12:00	Break			
14:00	<p><b>Prof. Sara Mathieson</b>, Haverford College, US  <i>"Automatic evolutionary inference using Generative Adversarial Networks"</i></p>			
15:00	Break			
15:30	<p>Parallel discussion sessions</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top;"> <p><b>Prof. Florian Hartig</b>            Chair: Klaus Zuberbühler</p> </td> <td style="width: 33%; vertical-align: top;"> <p><b>Prof. Magnus Enquist:</b>  <u>Simulating learning processes</u>            Chair: Irene García</p> </td> <td style="width: 33%; vertical-align: top;"> <p><b>Prof. Sara Mathieson</b>            Chair: Andrés Quiñones</p> </td> </tr> </table>	<p><b>Prof. Florian Hartig</b>            Chair: Klaus Zuberbühler</p>	<p><b>Prof. Magnus Enquist:</b>  <u>Simulating learning processes</u>            Chair: Irene García</p>	<p><b>Prof. Sara Mathieson</b>            Chair: Andrés Quiñones</p>
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17:00	End			

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9:20	Welcome			
9:30	<p><b>Prof. Olof Leimar</b>, Stockholm University, Sweden  <i>"The evolution of social dominance through reinforcement learning"</i></p>			
10:30	Break			
11:00	<p><b>Dr. Jennifer Hoyal Cuthill</b>, University of Essex, UK  <i>"Machine learnt spatial embeddings for new biological insights"</i></p>			
12:00	Break			
14:00	<p><b>Dr. Tim Lucas</b>, Imperial College, London, UK  <i>"Model stacking to incorporate auxiliary data for malaria mapping"</i></p>			
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