

## TUM Summer School 2019 - Selection and Breeding

Lecturers: Bruce Walsh/University of Arizona, Guilherme Rosa/University of Wisconsin-Madison, Sebastian Schultheiss/Computomics

	Tuesday June 25	Wednesday June 26	Thursday June 27	Friday June 28	Saturday June 29	Sunday June 30	Monday July 1	Tuesday July 2	
09:00 – 10:30	Arrival and Registration	Linear models (Walsh)	Bayesian Stats III (Rosa)	Single-trait BLUP selection (Rosa)	Index selection (Walsh)	<free time>	GWAS (Walsh)	Machine learning (Schultheiss)	
10:30 – 11:00		<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>		<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>
11:00 – 12:30		Mixed models (Rosa)	MCMC I (Rosa)	Extensions of BLUP (Walsh)	Multiple-trait BLUP (Rosa)		G x E I (Walsh)	Machine learning (Schultheiss)	
12:30 – 13:30	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>		<i>Lunch</i>	<i>Lunch</i>	
14:00 – 15:30	Class introduction and overview (Walsh)	Bayesian Stats I (Rosa)	MCMC II (Rosa)	Multiple-trait selection (Walsh)	Genomic Selection I (Rosa)		G x E II (Walsh)	Machine learning (Schultheiss)	
15:30 – 16:00	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>		<i>Coffee break</i>	End	
16:00 – 18:00	Overview of Quantitative Genetics (Walsh)	Bayesian Stats II (Rosa)	Single-trait selection (Walsh)	Excursion to Andechs	Genomic Selection II (Rosa)		Path analysis and networks (Rosa)		
18:30 – 19:30	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>		<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>		
19:30 – 21:00	Overview of Statistics (Walsh)	<free time>	Review and discussion		Discussion	<free time>	<free time>		