Workshop on demographic Inference

Tjärnö, Sweden, September 11-15 2017

Sunday

Evening	Solve computer issues if necessary

Monday

8:00	Breakfast
8:30	Participants show 2-3 slides about their research and interest in the workshop
10:00	Coffee break
10:30	Lecture: Popgen refresher: coalescent theory for demographic inference(Daniel)
12:00	Lunch
13:00	Lecture: Intro to Coalescent theory (Daniel)
15:00	Coffee break
15:30	Practical: simulating neutral diversity with fastsimcoal (Daniel)
17:00	Dinner
19:00	Pub

Tuesday

8:00	Breakfast
8:30	Lecture: “NGS data, uncertainties and how to deal with them” (Matteo)
10:00	Coffee break
10:30	Practical: “ANGSD and ngsTools” (Matteo)
12:00	Lunch
13:00	Practical: ANGSD and ngsTools (Matteo, continued)
14:00	Lecture: “Model-based inference: Frequentist and Bayesian” (Daniel)
15:00	Coffee break
15:30	Lecture: “Model-based inference: Frequentist and Bayesian” (Daniel, continued)
17:00	Dinner

Wednesday

8:00	Breakfast
8:30	Lecture: “Getting insights from low-depth (and ancient) DNA” (Vivian)
9:45	Coffee break
10:15	Practical: “ATLAS for recalibration, genotyping and diversity estimation” (Vivian)
12:00	Lunch
13:00	Lecture: “Intro to Composite Likelihood & ABC methods” (Daniel)
14:45	Coffee break
15:15	Practical: “Using ABCtoolbox and fastsimcoal on simple models” (Daniel)
17:00	Dinner
18:00	Walk

Thursday

8:00	Breakfast
8:30	Lecture: “ABC model choice and inference in high(er) dimensions” (Daniel)
9:45	Coffee Break
10:15	Practical: “Complex models and model choice with ABCtoolbox” (Daniel)
12:00	Lunch
13:00	Lecture: “Inferring selection with ABC and other tools” (Matteo)
14:45	Coffee break
15:15	Participants plan a demographic analysis for their own data (Daniel and Vivian)
17:00	Dinner

Friday

8:00	Breakfast
8:30	Participants conduct some first analysis on their data
12:00	Lunch
13:00	Participants conduct some first analysis on their data (continued)
14:45	Coffee break
15:15	Discussion about first impressions and solutions to encountered problems
17:00	Dinner
19:00	Pub