Workshop Machine Learning in Population Genetics
29.01.2025

What to Bring:
Your laptop, time and curiosity, a good mood, (and maybe a multi-plug).
There will be coffee and snacks available throughout the day.
Feel free to bring your favorite coffee mug.

Location: Maria von Linden Str. 6, ground floor (left)

Schedule

9:00 am: Doors open, informal arrival

9:30 - 9:45 am: welcome, introductions to Machine Learning and Population Genetic Data, and workshop overview

9:45 - 10:15 am:

- Flash talks (2 minutes each)

10:15 am: short break

10:30 - 12:00 pm:

- **Session 1:** Detecting Selective Sweeps with CNNs

12:00 - 1:30 pm: Lunch break (no lunch provided, but there are some options nearby)

1:30 - 3:00 pm:

- **Session 2:** Neural Posterior Estimation for Population Genetic Models

3:00 - 3:30 pm: Coffee break with pretzels and pastries

3:30 - 4:30 pm:

Discussion of current challenges and perspectives at the intersection of machine learning and biology in your research

Each of the session will consist of 15-20 min presentation and 1 h hands-on session. The sessions do not depend on each other.

Session 3: Hierarchical Population Structure Inference (has been canceled)