

# Supervised detection of the same peaks jointly across several ChIP-seq samples

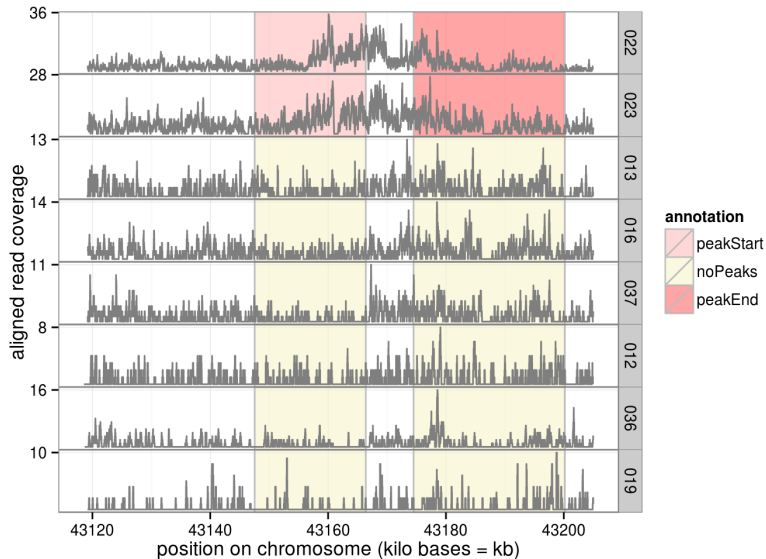
Toby Dylan Hocking

[toby.hocking@mail.mcgill.ca](mailto:toby.hocking@mail.mcgill.ca)

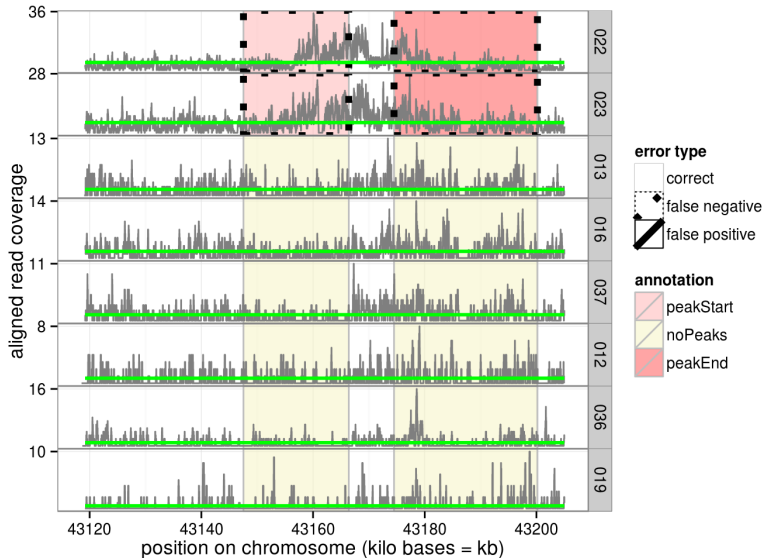
joint work with Guillem Rigau and Guillaume Bourque

2 April 2015

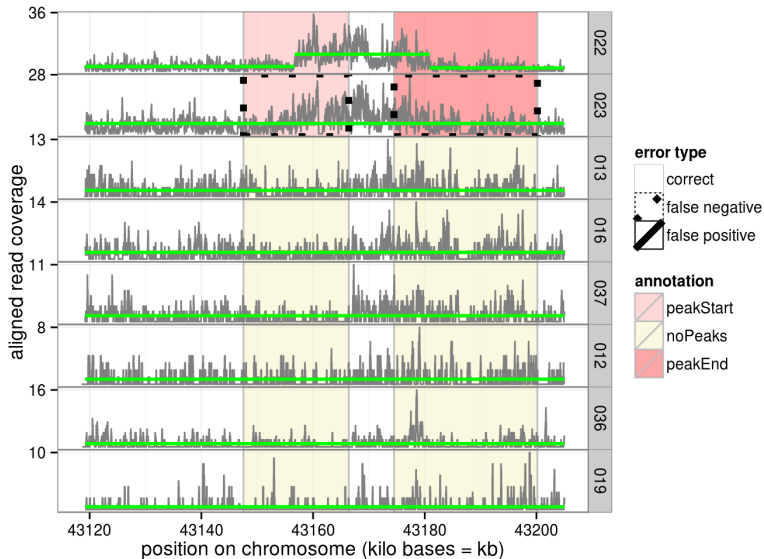
# H3K36me3 data and labels



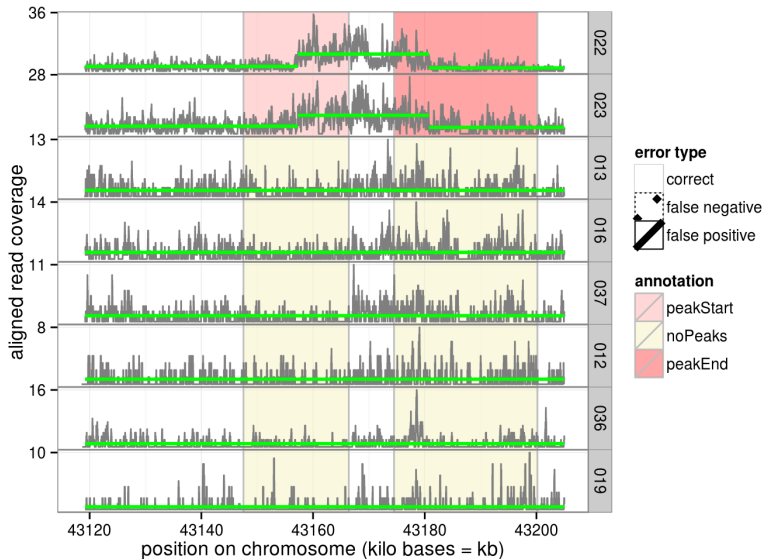
# PeakSegJoint model with 0 peaks



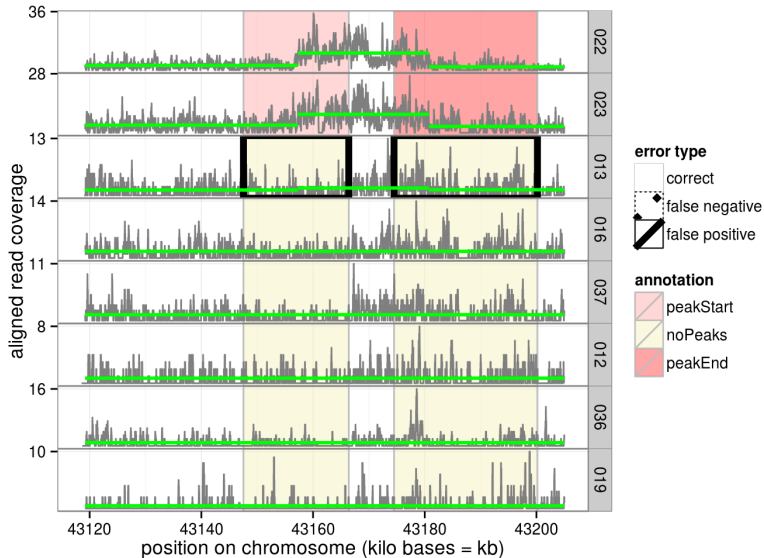
# PeakSegJoint model with 1 peak



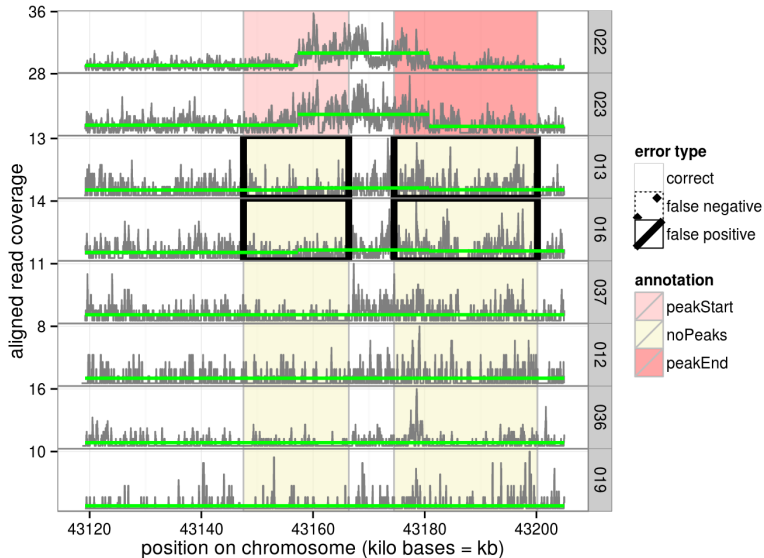
# PeakSegJoint model with 2 peaks



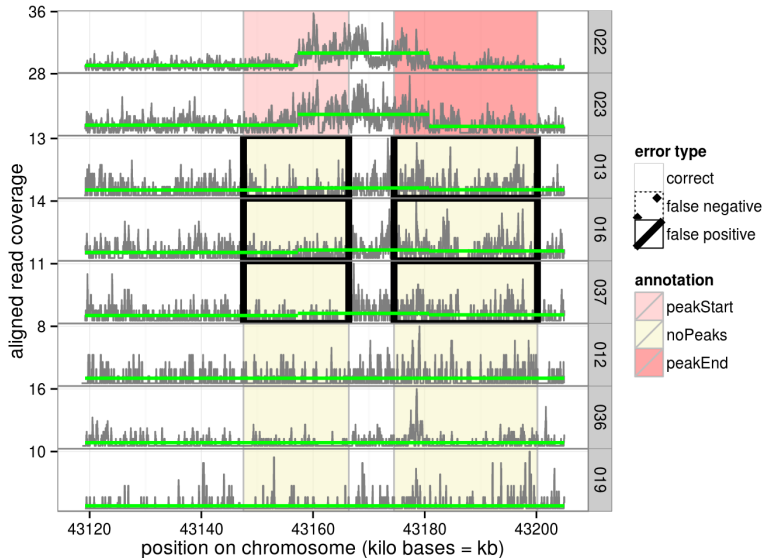
# PeakSegJoint model with 3 peaks



# PeakSegJoint model with 4 peaks

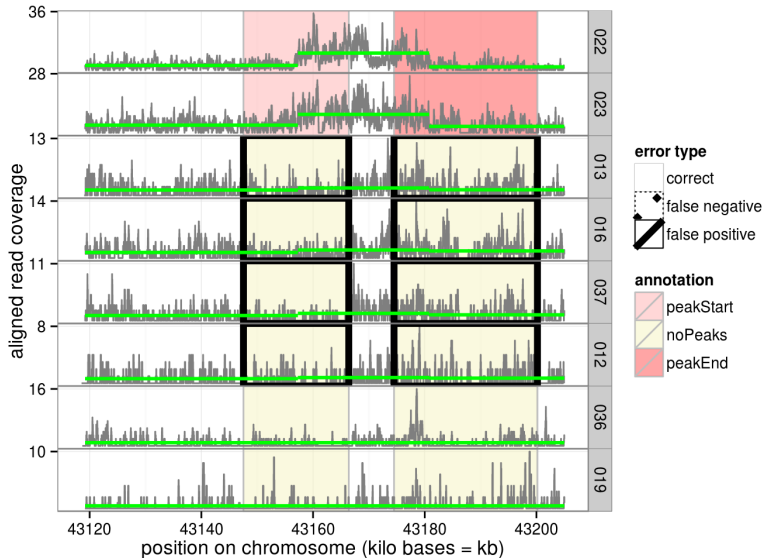


# PeakSegJoint model with 5 peaks

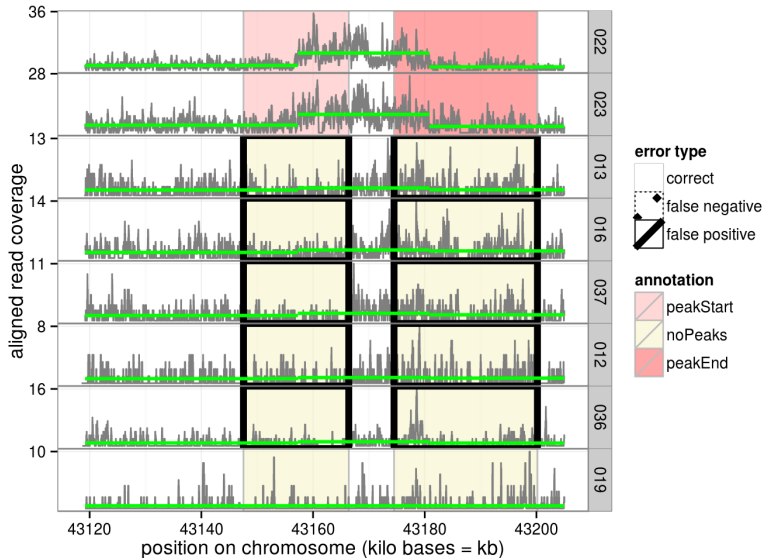




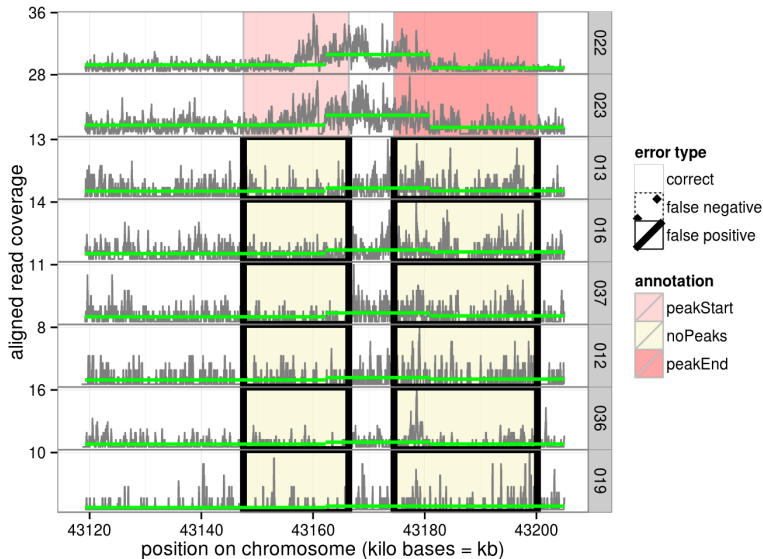
# PeakSegJoint model with 6 peaks



# PeakSegJoint model with 7 peaks



# PeakSegJoint model with 8 peaks



# Select model with minimal number of incorrect regions

