AUC CI plots

Goal for this chapter

- ☒ Redo the tables for AUC CI
- ☒ Adding plots for the AUC CI
- ☒ Redo the BierS tables
- ☒ Adding plots for BierS CI
- ☒ You are first-class!

Load the data

I save each permutation separately, so I need to load all the separated files and then combine them into one dataset. This is not the best way of working but when the parallel processing does not work properly. This is the only way to make everything works.

AUC CI summary Table

Train

	Dt1	Dt2	Dt3	Dt4	Dt5
Tstart2	NaN	0.4764022	0.7296385	0.7531788	0.7816596
Tstart3	0.5937156	0.8120231	0.8029481	0.8000173	0.8001769
Tstart4	0.8757904	0.8266808	0.8330173	0.8258154	0.8002942
Tstart5	0.8007327	0.8425596	0.8424135	0.8131423	0.8169192
Tstart6	0.8544981	0.8610442	0.8287154	0.8218962	0.8260788
Tstart8	0.8089731	0.8175962	0.8276327	0.8260673	0.8569635

Test

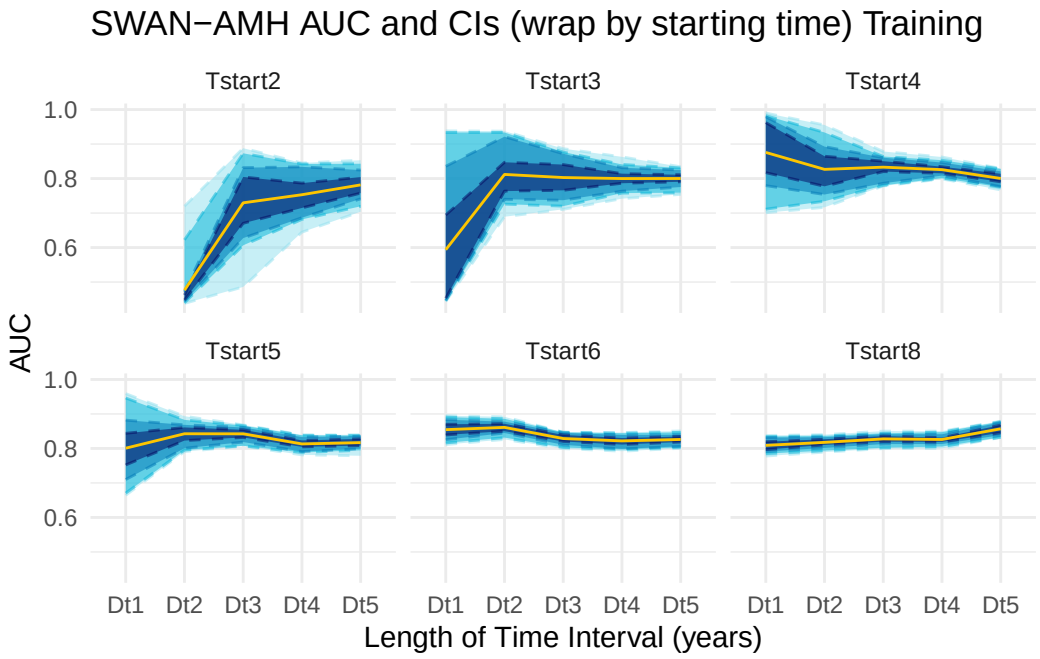
	Dt1	Dt2	Dt3	Dt4	Dt5
Tstart2_test	NaN	0.4573552	0.7309700	0.7847250	0.7920058
Tstart3_test	0.5882207	0.8425400	0.8384558	0.8046635	0.7896904
Tstart4_test	0.9030222	0.8491176	0.8116500	0.8096865	0.7904692
Tstart5_test	0.8416125	0.8348192	0.8393577	0.8086404	0.8094327
Tstart6_test	0.8436404	0.8601615	0.8270519	0.8185615	0.8208308
Tstart8_test	0.8038865	0.8086308	0.8184769	0.8148731	0.8454942

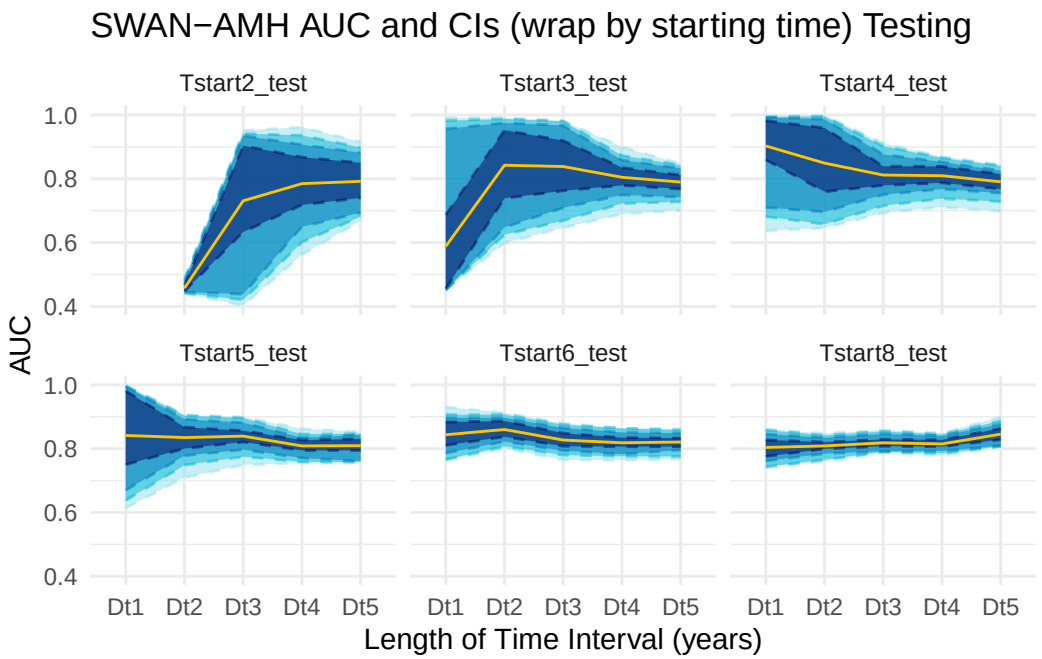
For the plots with different start time and duration.

AUC Plots

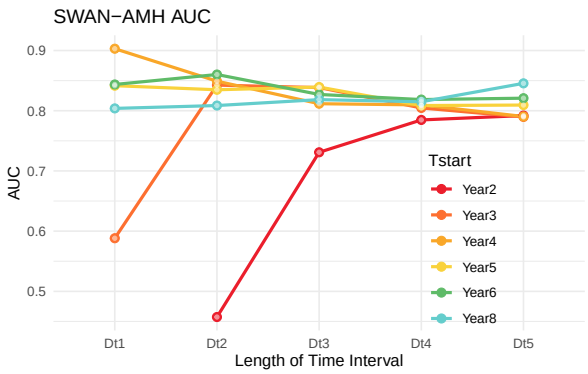
The interval is very wide at the beginning, because we have very few events at the beginning. The sample size is very small, ending up with very wide confidence intervals. but it is still good to have the interval to show how the AUC changed over time. The comparison makes sense when we have a even larger sample size.

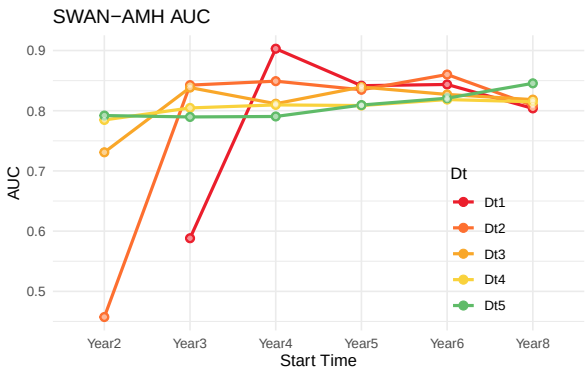
This is interesting that it could be plotted a long figures. Seems contineous.




SWAN−AMH AUC and CIs (wrap by starting time) Testing
Tstart2_test
Tstart3_test
Tstart4_test
Tstart5_test
Tstart6_test
Tstart8_test
AUC
1.0
0.8
0.6
0.4
Dt1
Dt2
Dt3
Dt4
Dt5
Length of Time Interval (years)

AUC only


SWAN−AMH AUC
AUC
0.9
0.8
0.7
0.6
0.5
Tstart
Year2
Year3
Year4
Year5
Year6
Year8
Dt1
Dt2
Dt3
Dt4
Dt5
Length of Time Interval


SWAN−AMH AUC
AUC
0.9
0.8
0.7
0.6
0.5
Dt
Dt1
Dt2
Dt3
Dt4
Dt5
Year2
Year3
Year4
Year5
Year6
Year8
Start Time