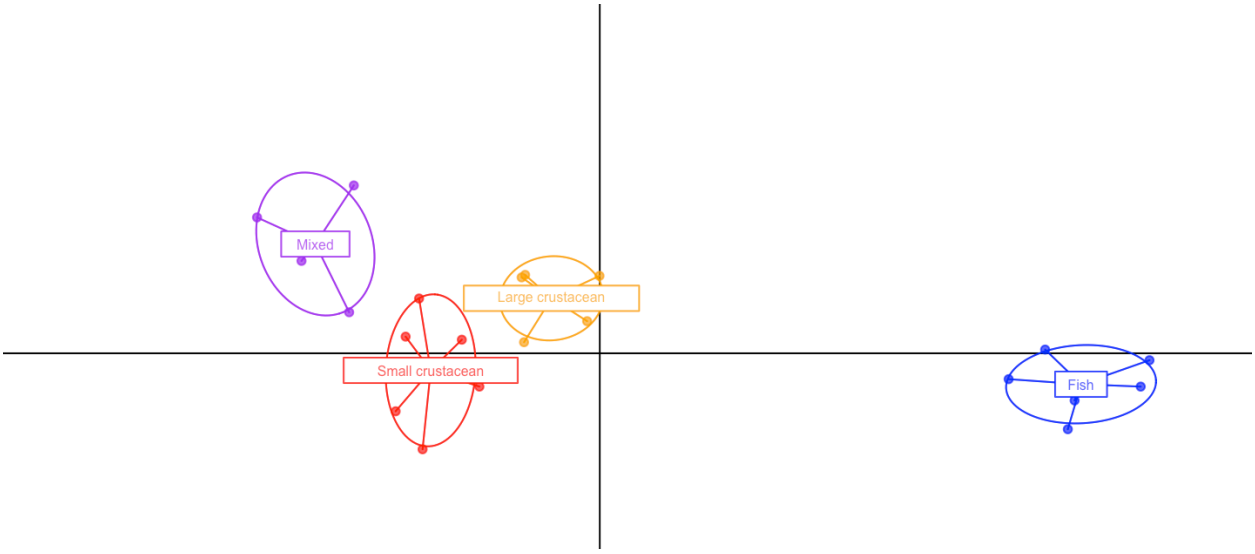
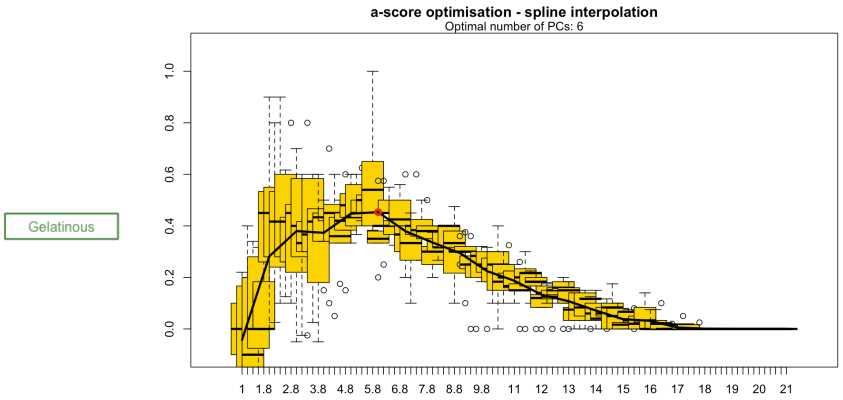
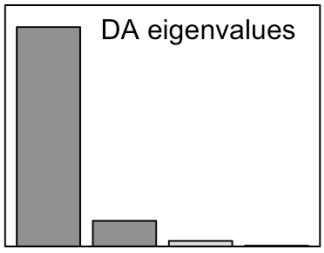
15.1) DAPC for Feeding guilds. Six PCs retained after a-score optimization (100 iterations). Four LDA functions used. Discriminant power on training set: 100%. Prediction posterior distribution heat map in main text Figure 6. Variable contribution (top quartile) calculated by the sum of the LDA variable loadings weighted by the eigenvalue of each LDA.

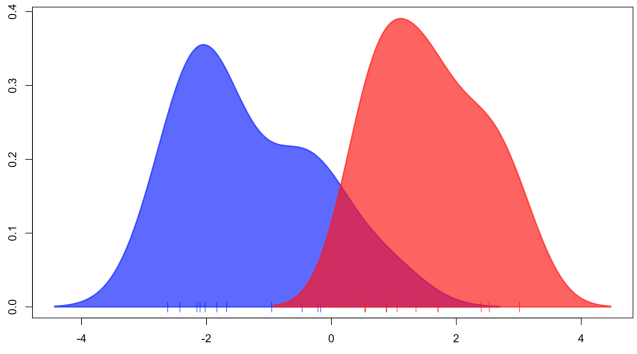


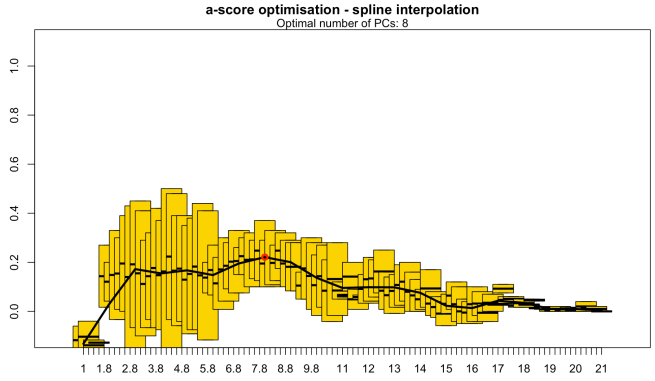




	Variable contribution
Involucrum.length..um.	91.945027
Heteroneme.volume..um3.	71.675594
Heteroneme.number	33.874805
Total_heteroneme_volume	17.913878
Tentacle.width..um.	13.274347
Heteroneme.free.length..um.	10.825676
Total nematocyst volume	9.838328
Heteroneme.width..um.	8.474876

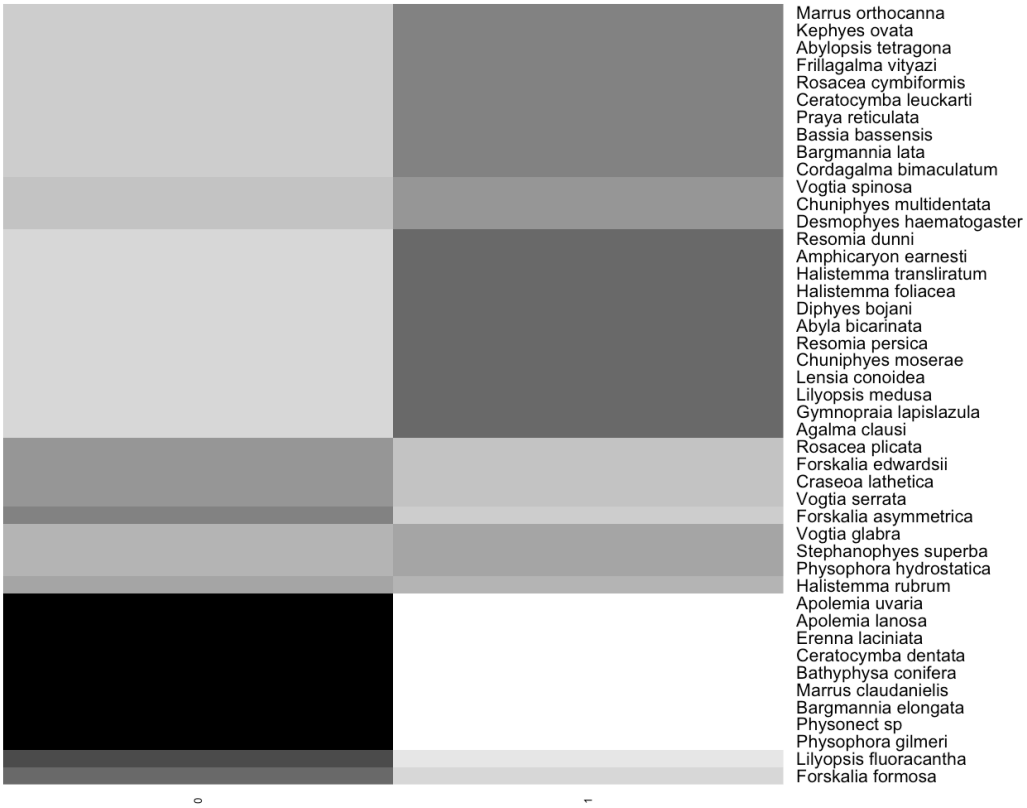
15.2) DAPC for copepod presence in the diet. Eight PCs retained after a-score optimization (100 iterations). One LDA functions used. Discriminant power on training set: 95.4%. Grayscale heat map shows the posterior probability distribution of the predictions. Variable contribution (top quartile) calculated by the sum of the LDA variable loadings weighted by the eigenvalue of each LDA.



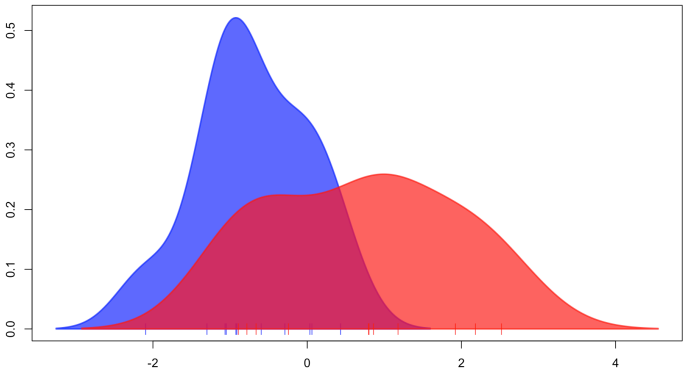


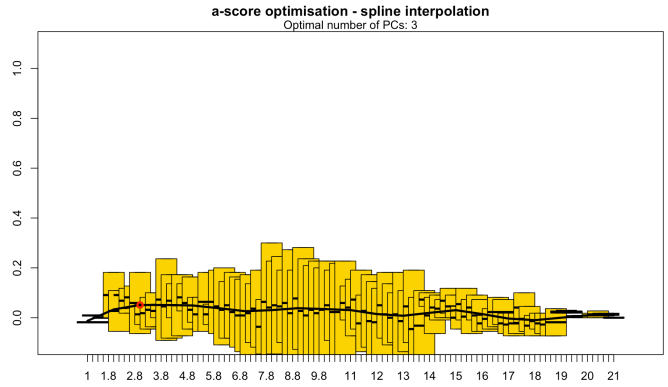
Variable contribution

Total_nematocyst_volume	12.810953
Tentacle.width..um.	5.687086
haploneme_elongation	4.586386
SAV_haploneme	4.264843
Haploneme.row.number..um.	2.966009
Cnidoband.length..um.	1.959479
Cnidoband.width..um.	1.679753
Cnidoband.free.length..um.	1.468262

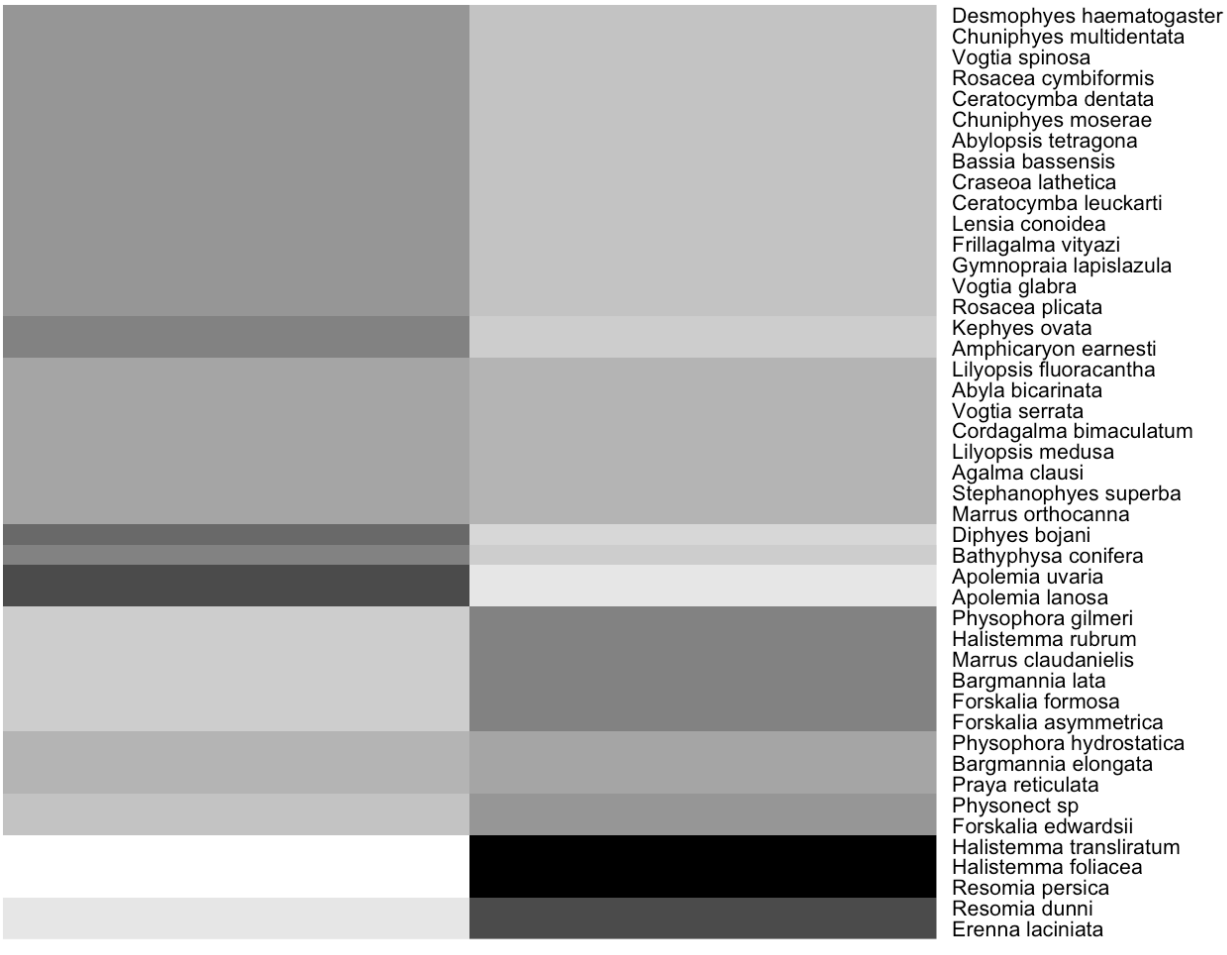


15.3) DAPC for fish presence in the diet. Three PCs retained after a-score optimization (100 iterations). One LDA function used. Discriminant power on training set: 68.1%. Grayscale heat map shows the posterior probability distribution of the predictions. Variable contribution (top quartile) calculated by the sum of the LDA variable loadings weighted by the eigenvalue of each LDA.

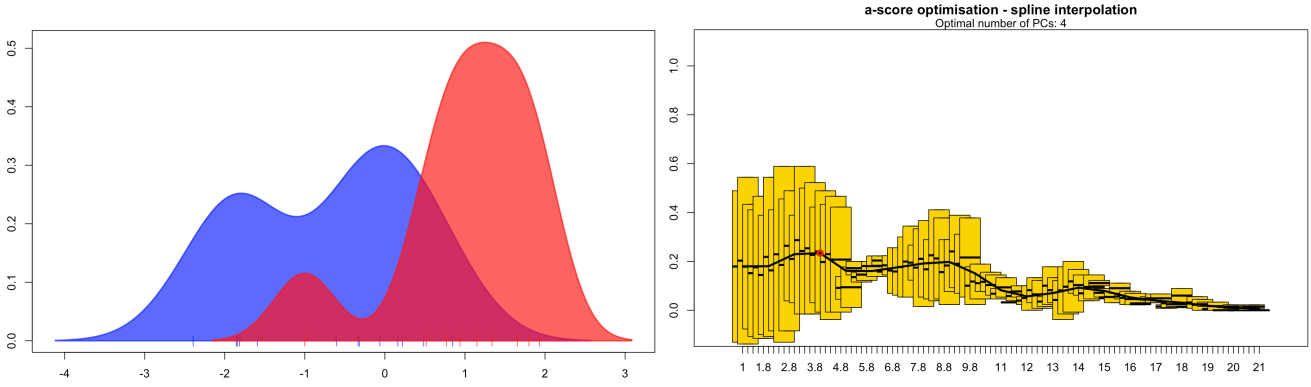




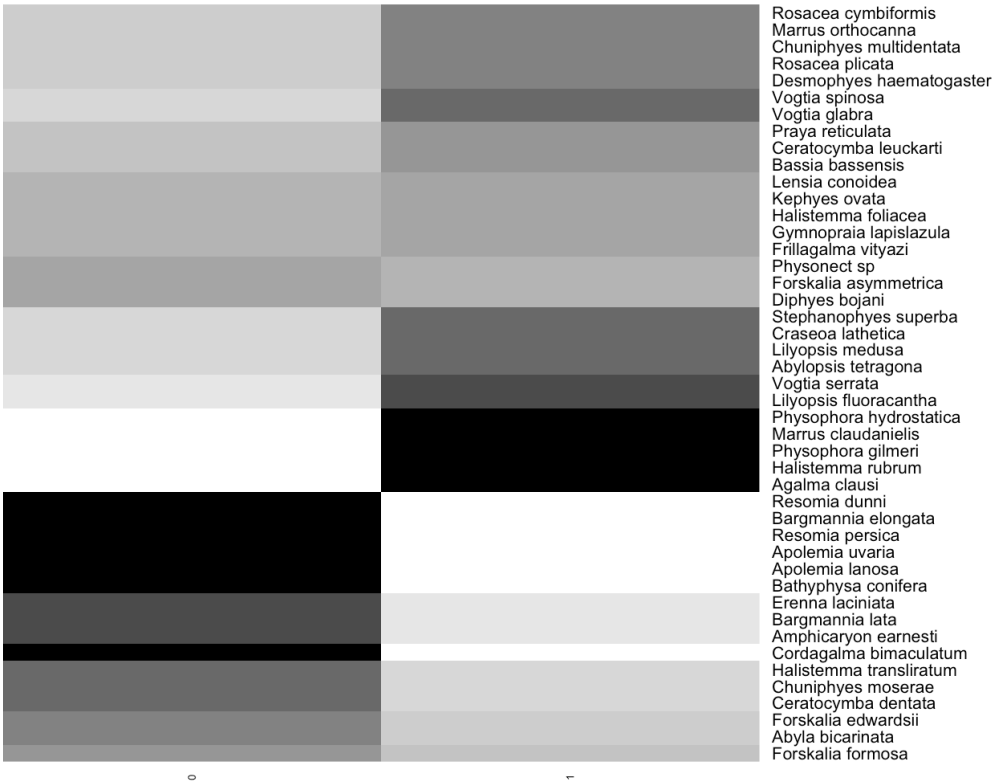
Variable contribution	
total_haploneme_volume	2.2734508
Heteroneme.volume..um3.	1.1308252
total_nematocyst_volume	1.1104459
total_heteroneme_volume	0.9402038
Cnidoband.length..um.	0.7583124
Cnidoband.free.length..um.	0.6650068
Involucrum.length..um.	0.6097537
Pedicle.width..um.	0.5447312



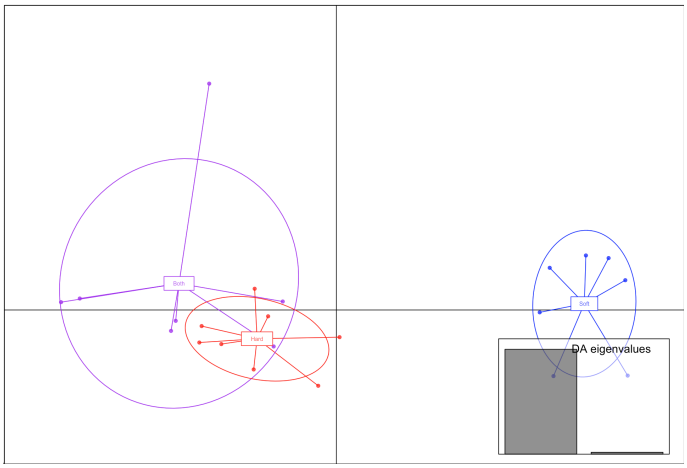
15.3) DAPC for large crustacean presence in the diet. Four PCs retained after a-score optimization (100 iterations). One LDA function used. Discriminant power on training set: 81.8%. Grayscale heat map shows the posterior probability distribution of the predictions. Variable contribution (top quartile) calculated by the sum of the LDA variable loadings weighted by the eigenvalue of each LDA.

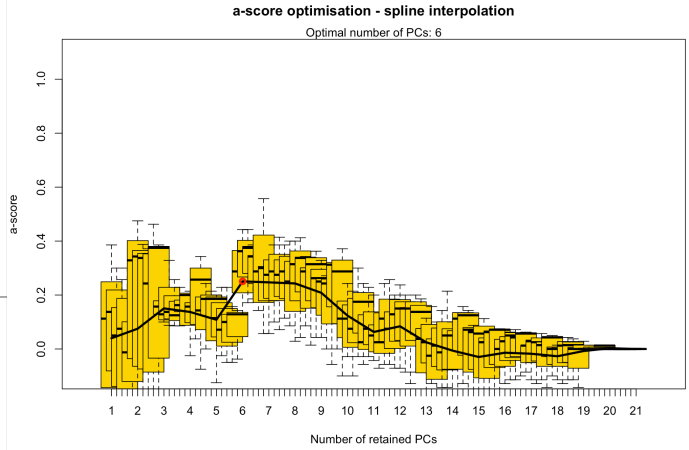


	Variable contribution
Involucrum.length..um.	8.4739326
total_heteroneme_volume	2.0479062
Elastic.strand.width..um.	1.2640038
Rhopaloneme.length..um.	0.4274179
Heteroneme.volume..um3.	0.4255758
haploneme_elongation	0.3530771
Desmoneme.length..um.	0.3274451
Tentacle.width..um.	0.2763979



15.4) DAPC for soft-bodied *vs.* hard bodied prey specialization. Six PCs retained after a-score optimization (100 iterations). Two LDA functions used. Discriminant power on training set: 90.9%. Grayscale heat map shows the posterior probability distribution of the predictions. Variable contribution (top quartile) calculated by the sum of the LDA variable loadings weighted by the eigenvalue of each LDA.





	Variable contribution
Involucrum.length..um.	24.425696
Heteroneme.number	18.129947
Heteroneme.volume..um3.	6.849738
Tentacle.width..um.	6.587487
Total_nematocyst_volume	5.606488
total_haploneme_volume	4.185115
Elastic.strand.width..um.	3.584917
Heteroneme.free.length..um.	3.014292