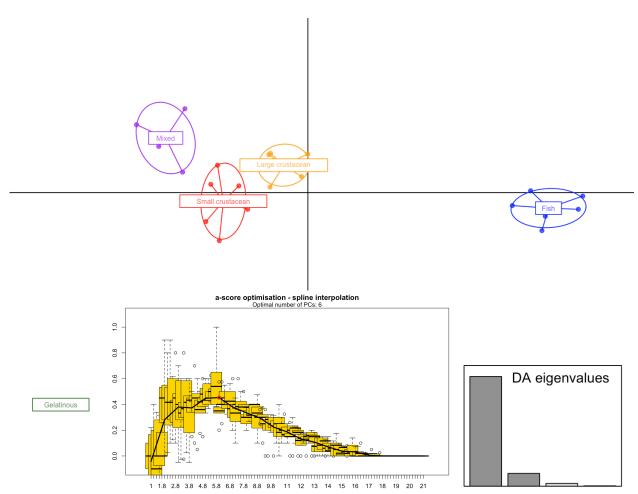
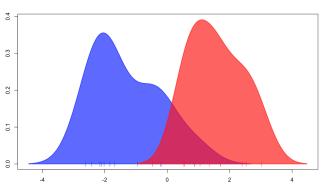
15.1) DAPC for Feeding guilds. Six PCs retained after a-score optimization (100 iterations). Four LDA functions used. Discriminant power on training set: 100%. Prediction posterior distribution heat map in main text Figure 6. Variable contribution (top quartile) calculated by the sum of the LDA variable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

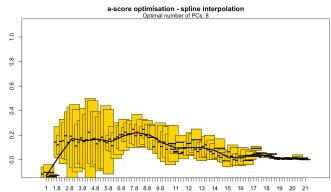


## Variable contribution

Involucrum.lengthum.	91.945027
Heteroneme.volumeum3.	71.675594
Heteroneme.number	33.874805
Total_heteroneme_volume	17.913878
Tentacle.widthum.	13.274347
Heteroneme.free.lengthum.	10.825676
Total nematocyst volume	9.838328
Heteroneme.widthum.	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.





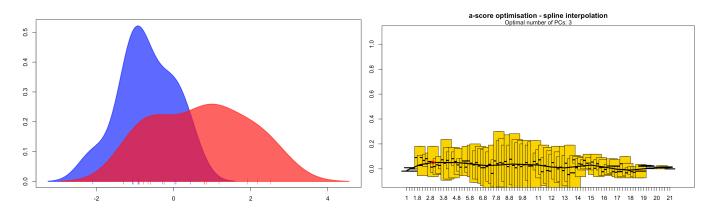
## Variable contribution

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



Marrus orthocanna Kephyes ovata Abylopsis tetragona Frillagalma vityazi Rosacea cymbiformis Ceratocymba leuckarti Prava réticulata Bassia bassensis Bargmannia lata Cordagalma bimaculatum Voqtia spinosa Chuniphyes multidentata
Desmophyes haematogaster Resomia dunni Amphicaryon earnesti Halistemma transliratum Halistemma foliacea Diphyes bojani Abyla bicarinata Resomia persica Chuniphyes moserae Lensia conoidea Lilyopsis medusa Gymnopraia lapislazula Agalma clausi Rosacea plicata Forskalia edwardsii Craseoa lathetica Vogtia serrata Forskalia asymmetrica Vogtia glabra Stephanophyes superba Physophora hydrostatica Halistemma rubrum Apolemia uvaria Apolemia lanosa Erenna laciniata Ceratocymba dentata Bathyphysa conifera Marrus claudanielis Bargmannia elongata Physonect sp Physophora gilmeri Lilvopsis fluoracantha Forskalia formosa

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

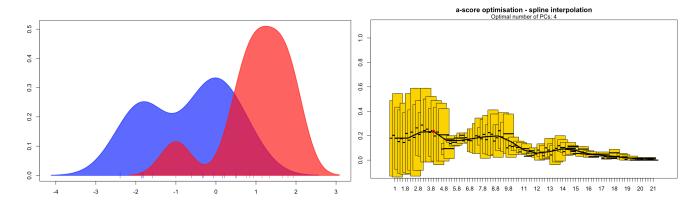
total\_haploneme\_volume
Heteroneme.volume..um3.
total\_nematocyst\_volume
total\_heteroneme\_volume
Cnidoband.length..um.
Cnidoband.free.length..um.
Involucrum.length..um.
Pedicle.width..um.

2.2734508 1.1308252 1.1104459 0.9402038 0.7583124 0.6650068 0.6097537 0.5447312



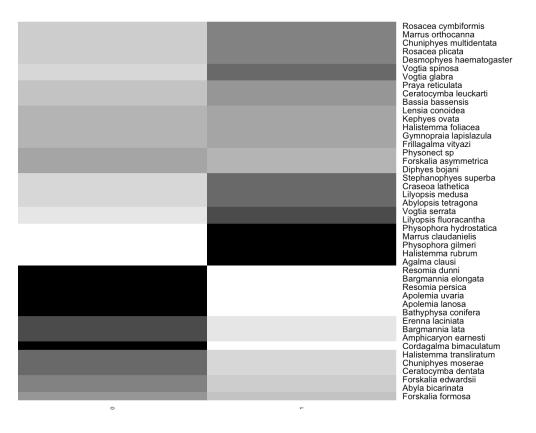
Desmophyes haematogaster Chuniphyes multidentata Vogtia spinosa Rosacea cymbiformis Ceratocymba dentata Chuniphyes moserae Abylopsis tetragona Bassia bassensis Craseoa lathetica Ceratocymba leuckarti Lensia conoidea Frillagalma vityazi Gymnopraia lapislazula Vogtia glabra Rosacea plicata Kephyes ovata Amphicaryon earnesti Lilvopsis fluoracantha Abyla bicarinata Vogtia serrata Cordagalma bimaculatum Lilyopsis medusa Agalma clausi Stephanophyes superba Marrus orthocanna Diphyes bojani Bathyphysa conifera Apolemia uvaria Apolemia lanosa Physophora gilmeri Halistemma rubrum Marrus claudanielis Bargmannia lata Forskalia formosa Forskalia asymmetrica Physophora hydrostatica Bargmannia elongata Praya reticulata Physonect sp Forskalia edwardsii Halistemma transliratum Halistemma foliacea Resomia persica Resomia dunni Erenna laciniata

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.

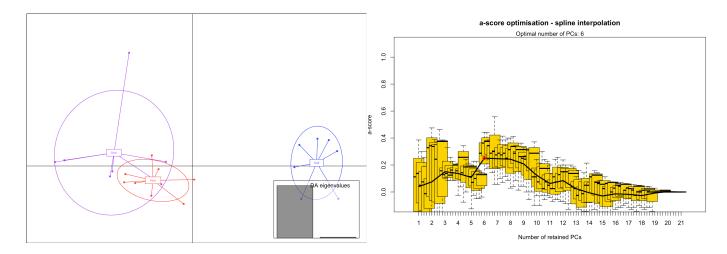


## Variable contribution

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.



Involucrum.length..um.
Heteroneme.number
Heteroneme.volume..um3.
Tentacle.width..um.
Total\_nematocyst\_volume
total\_haploneme\_volume
Elastic.strand.width..um.
Heteroneme.free.length..um.

24.425696 18.129947 6.849738 6.587487 5.606488

Variable contribution

4.185115 3.584917 3.014292

