

# Random 5 Categories - 40 Images per category

## Overall Statistics

Total Super Categories: 23

Total Categories: 114

Categories randomly combined: 5

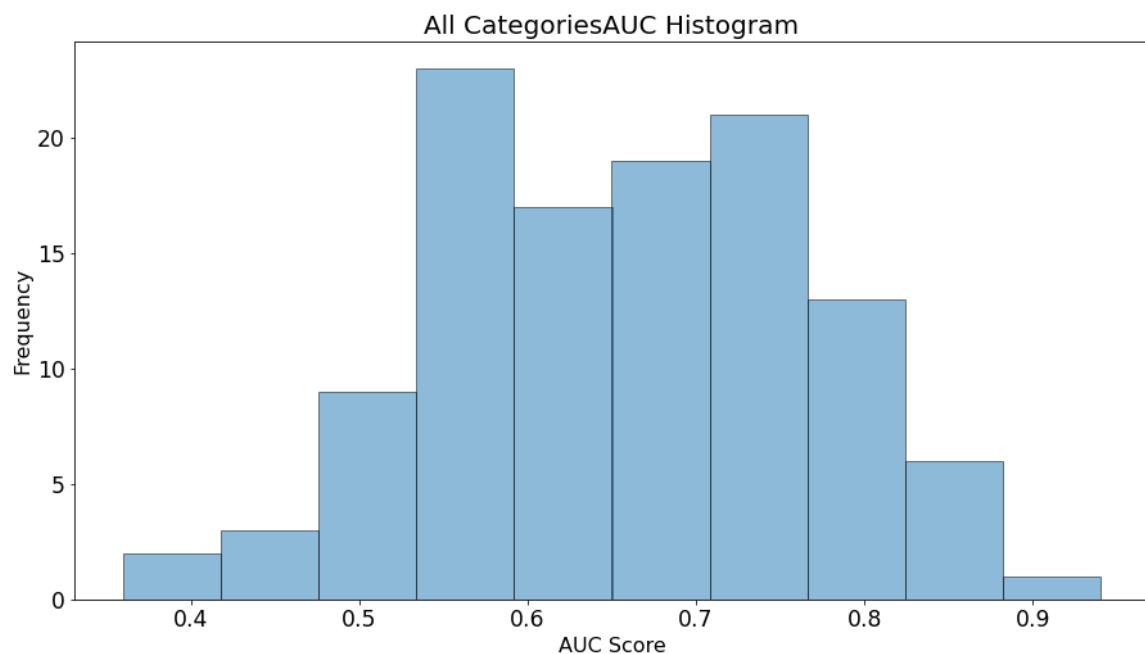
## Summary

Super Category	Categories	AUC	Error
0	Le Sphinx gazé (Hemaris fuciformis) Les Zygaènes à taches cercées (Zygaena) Lycaenidae Lycidae Megachilidae	0.67	0.05
1	Elateridae Les Chloromyies (Chloromyia) Les Syrphes Sphaerophoria (femelle) (Sphaerophoria) Les Syrphes Sphaerophoria (mâle) (Sphaerophoria) Les Syrphes difficiles à déterminer	0.57	0.04
2	Colletidae Le Chrysotoxe à double ceinture (Chrysotoxum bicinctum) Les Héliphiles (Helophilus, Parhelophilus) Les Syrittes (Syritta) Scathophagidae	0.52	0.04
3	Anthomyiidae L'Anthaxie demi-cuivrée et autres (Anthaxia) La Punaise guitare (Phymata crassipes) La Volucelle vide (Volucella inanis) Les Syrphes à taches en virgules (Eupeodes, Scaeva)	0.73	0.05
4	Erebidae Les Chloropides jaunes (Thaumatomyia) Les Epeires concombre (Araniella) Les Trichies (Trichius) Pieridae	0.75	0.05
5	Formicidae Les Adèles unies (plusieurs Adelidae) Les Rêduves (Rhynocoris) Oedemeridae Sphecidae	0.47	0.04
6	Cantharidae Les Cétoines métalliques à marques blanches (Cetonia, Protaetia) Les Ulidides allongés (Dorycera, Otites) Les Zygaènes à taches simples (Zygaena) Muscidae	0.71	0.05
7	Coccinellidae L'Eristale des fleurs (Myathropa florea) Les Charançons verts (Phyllobius, Polydrusus) Les Syrphes Syrphus et autres (Syrphus, Dasysyrphus et autres) Rhopalidae	0.7	0.05

8	Cerambycidae Cleridae Les Buprestes à points (Acmaeodera et autres) Mordellidae Pentatomidae	0.64	0.05
9	La Ferdinandea cuprea (Ferdinandea cuprea) La Volucelle zonée (Volucella zonaria) Le Syrphe ceinturé (Epsyrphus balteatus) Les Stratiomes mâtalliques fins (Sargus et autres) Les Ulidides mâtalliques (Physiphora et autres)	0.66	0.05
10	Chrysomelidae Hesperiidae Le Syrphe porte-plume (mâcle) (Sphaerophoria scripta) Les Taons clairs (Atylotus, Silvius) Pyrochroidae	0.71	0.05
11	L'Hoplie argentée (Hoplia argentea) Le Bibion précoce (femelle) (Bibio hortulanus) Les Bibions et autres (Bibio et autres) Les Câtoines sombres soyeuses (Tropinota) Scaptiidae	0.64	0.05
12	Halictidae La Valgue hémiptère (Valgus hemipterus) Les Adèles à motifs (plusieurs Adelidae) Les Syrphes à l'aspect de bourdon (Merodon et autres) Malachiidae	0.66	0.05
13	Le Drap mortuaire (Oxythyrea funesta) Les Punaises prédatrices ternes (Physiphora) Les Syrphes aux faces enflées Nymphalidae Pyrrhocoridae	0.68	0.05
14	Le Gâteau à barreaux (Chiasmia clathrata) Les Câtoines sombres glabres (Protaetia) Les Rhingies (Rhingia) Les Stratiomes blanc et noir (Nemotelus) Tenebrionidae	0.75	0.05
15	Andrenidae Le Moro-sphinx (Macroglossum stellatarum) Melittidae Mycteridae Papilionidae	0.74	0.05
16	Apidae Les Chloropides jaunes à faces enflées (Meromyza) Les Hennetons (Anisoplia, Phyllopertha) Les Stratiomes verts (Odontomyia, Oplodontha) Meloidae	0.66	0.05
17	Les Chrysotoxes (Chrysotoxum) Les Turquoises (Adscita, Jordanita) Pompilidae Tenthredinidae Tiphiidae	0.57	0.04
18	Coreidae La Volucelle enflée (Volucella inflata) Les Buprestes unis brillants (Anthaxia et autres) Les Syrphes aux antennes à bout blanc (Callicera) Nitidulidae	0.68	0.05
	Cimbicidae		

19	La Volucelle transparente ( <i>Volucella pellucens</i> ) Les Eristales (autres) ( <i>Eristalis</i> ) Les Géométridés (Geometridae) Noctuidae	0.62	0.04
20	Cydinidae La Milice frelon ( <i>Milesia crabroniformis</i> ) Les Eristales aux yeux ponctués ( <i>Eristalinus</i> ) Scoliidae Vespidae	0.7	0.05
21	Dasytidae Les Charançons (autres) ( <i>Larinus et autres</i> ) Les Epeires et autres Araneidae Les Epeires à dessin de feuille de Châgne ( <i>Aculepeira, Neoscona</i> ) Lygaeidae	0.66	0.05
22	Crabronidae L'Eristale taeniops ( <i>Eristalinus taeniops</i> ) Les Syrphes à abdomen fin ( <i>Meliscaeva et autres</i> ) Les Taons sombres (plusieurs Tabanidae)	0.62	0.05

### Overall AUC Histogram



# Super-Category 0

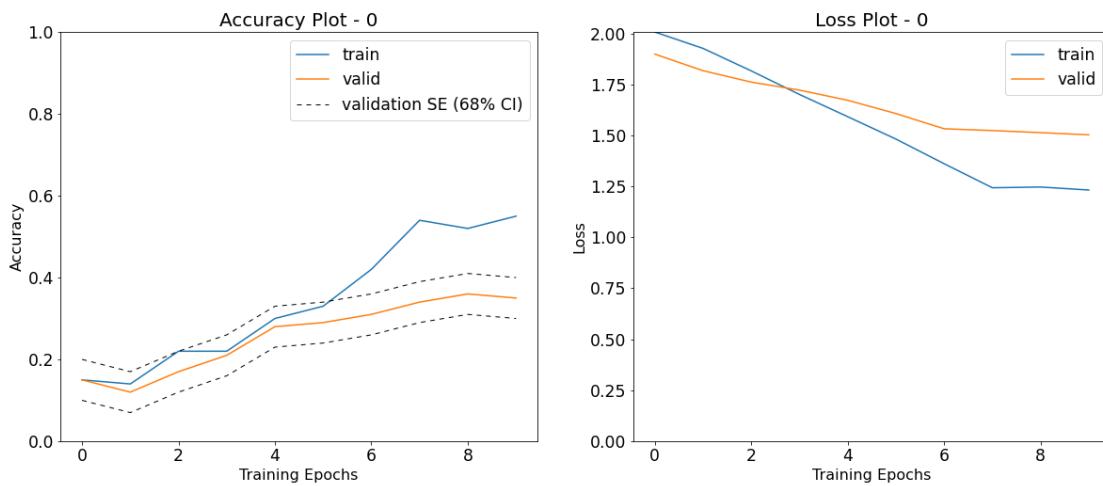
## Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	1m 4s
Best Train Accuracy	0.55
Best Valid Accuracy	0.36
AUC	0.67
2*AUC-1	0.33
Standard Error	0.05

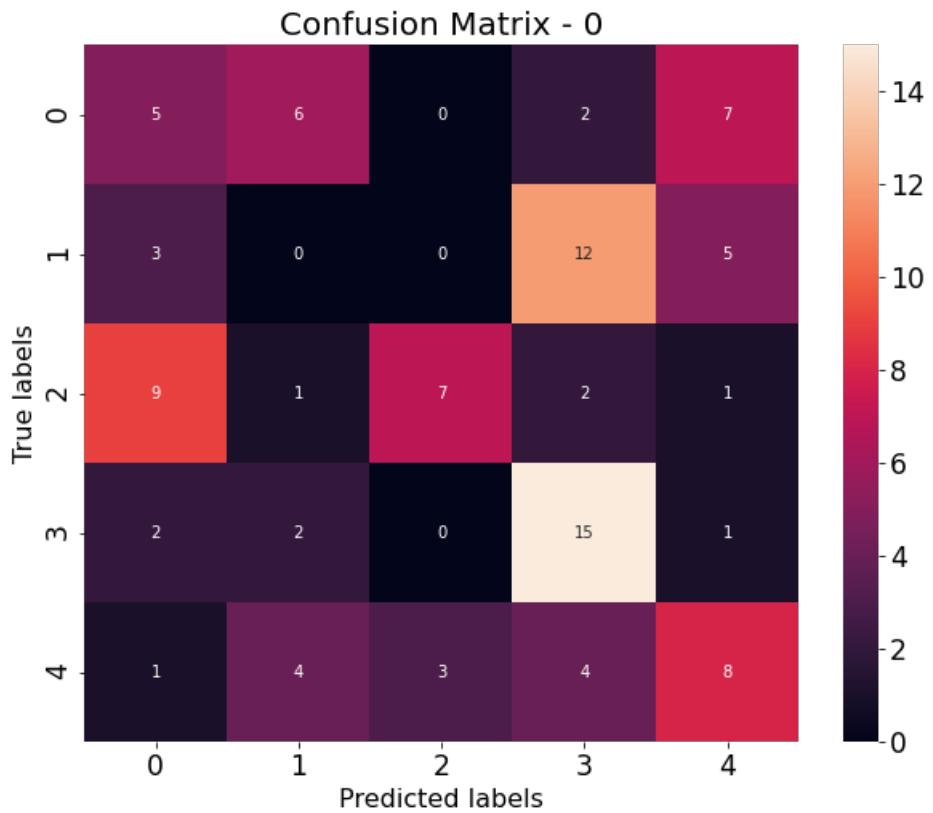
## Categories

Le Sphinx gaz© (Hemaris fuciformis)
Les Zygænes à taches cerclées (Zygaena)
Lycaenidae
Lycidae
Megachilidae

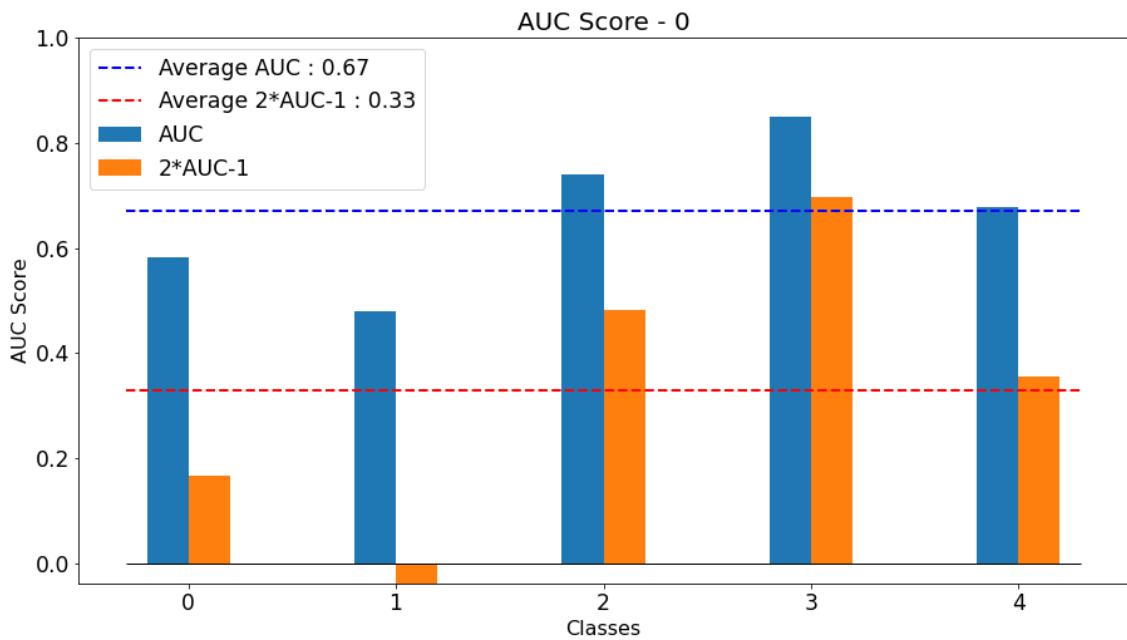
## Accuracy Loss Plot



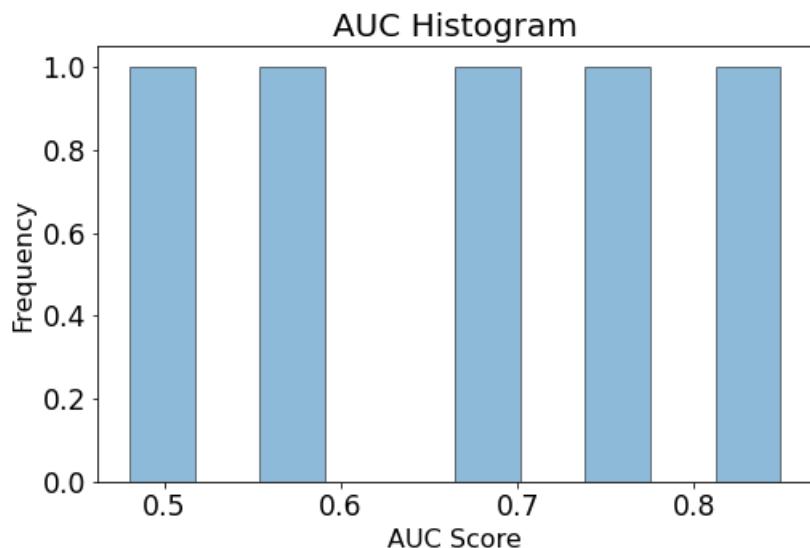
## Confusion Matrix



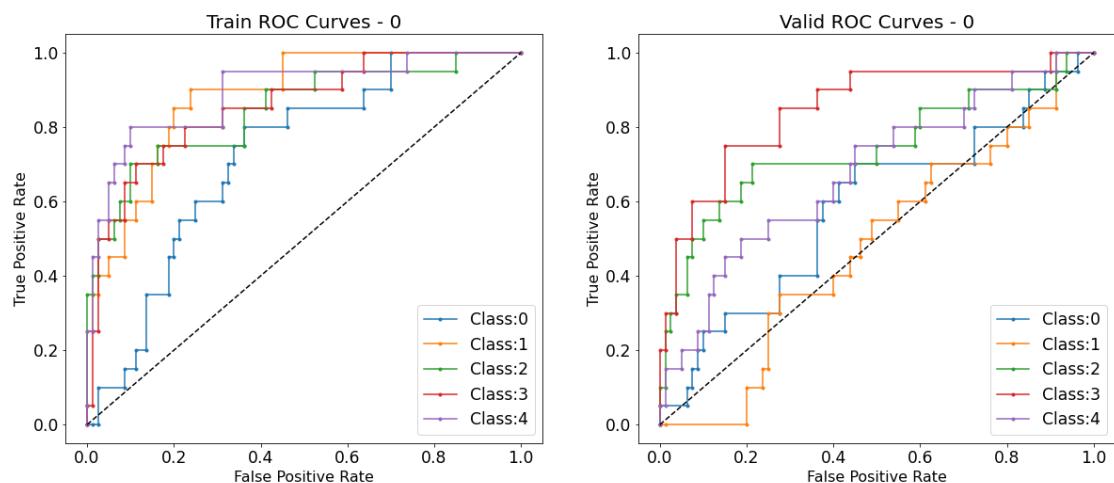
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 1

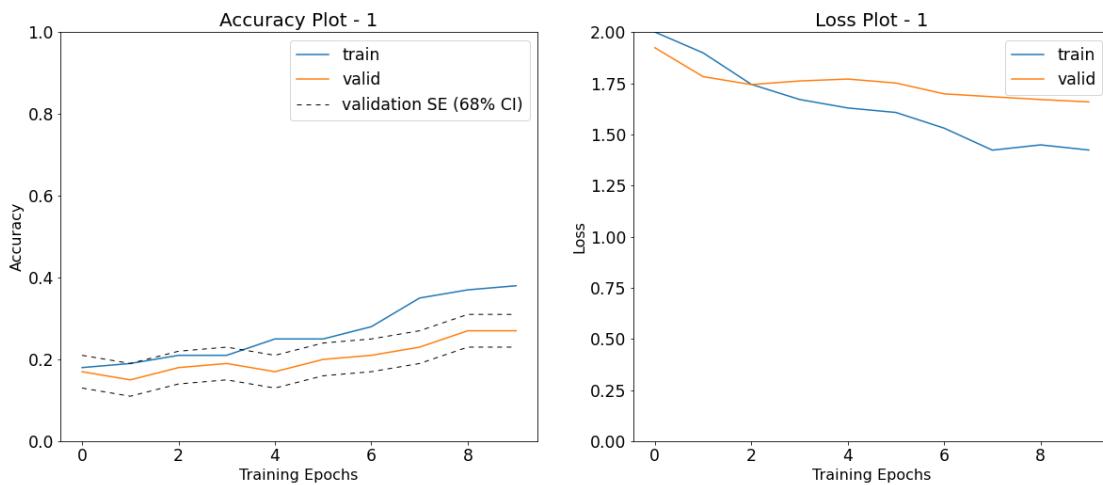
## Statistics

Total Images	200
Train Images	100
Valid Images	100

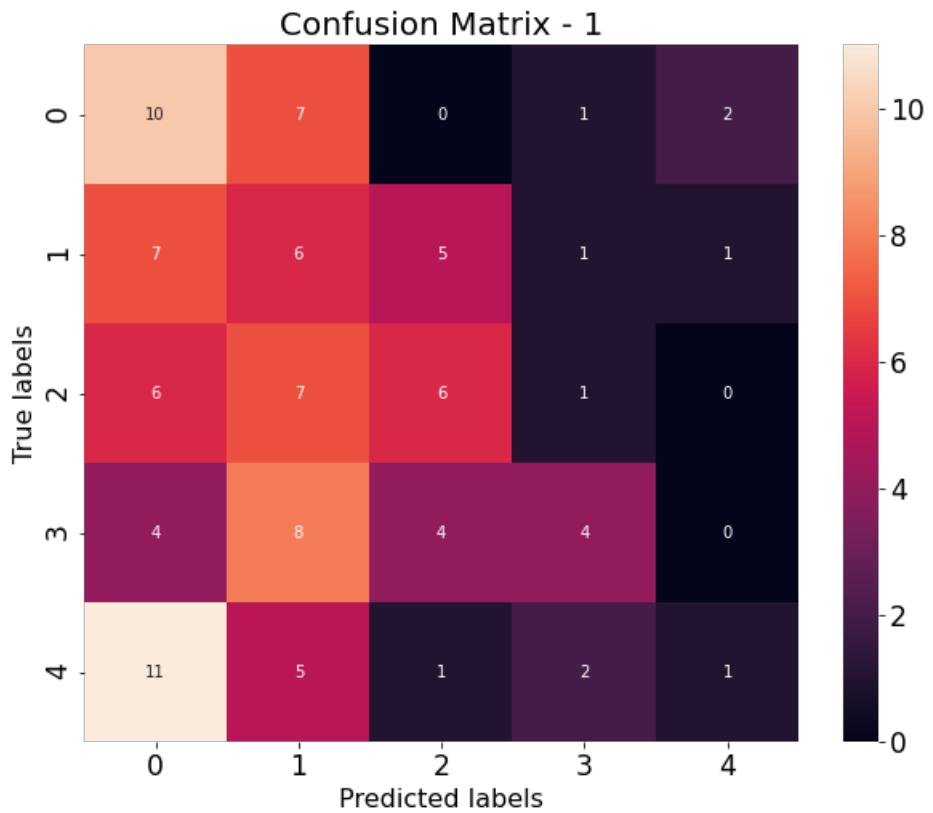
## Categories

Elateridae
Les Chloromyies (Chloromyia)
Les Syrphes Sphaerophoria (femelle) (Sphaerophoria)
Les Syrphes Sphaerophoria (mâle) (Sphaerophoria)
Les Syrphes difficiles à déterminer

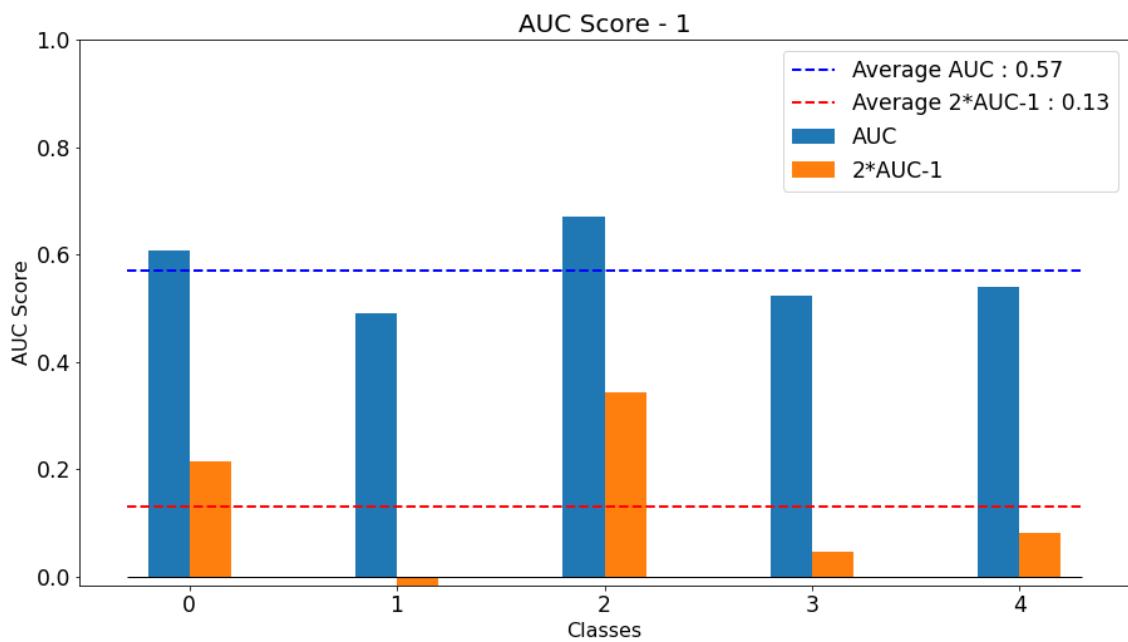
## Accuracy Loss Plot



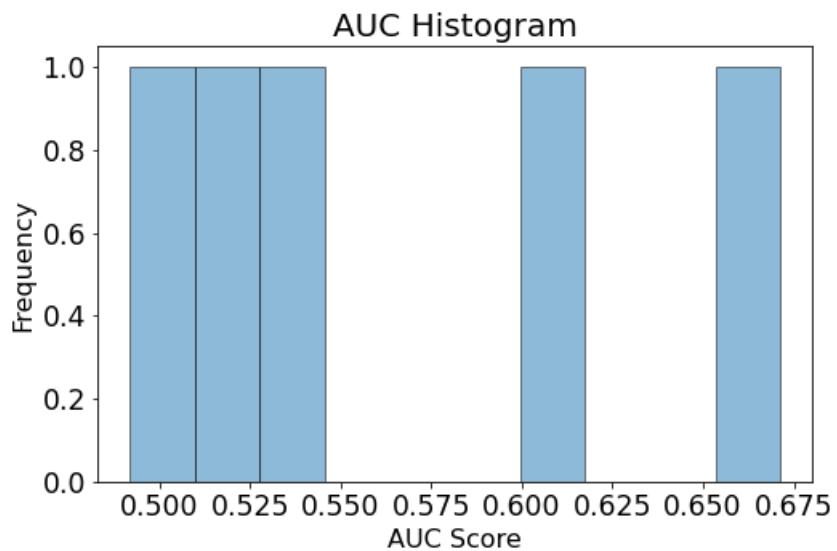
## Confusion Matrix



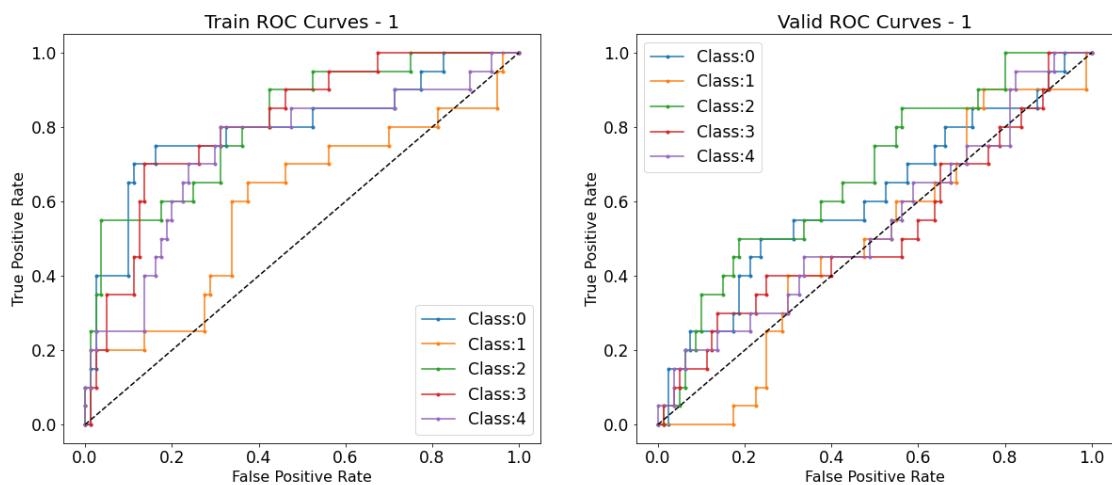
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



## Super-Category 2

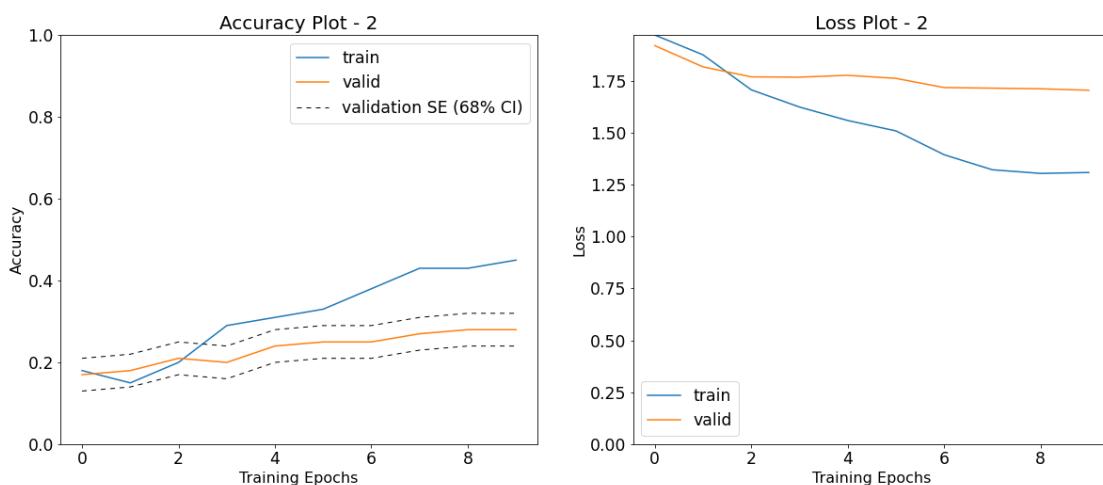
### Statistics

Total Images	200
Train Images	100
Valid Images	100

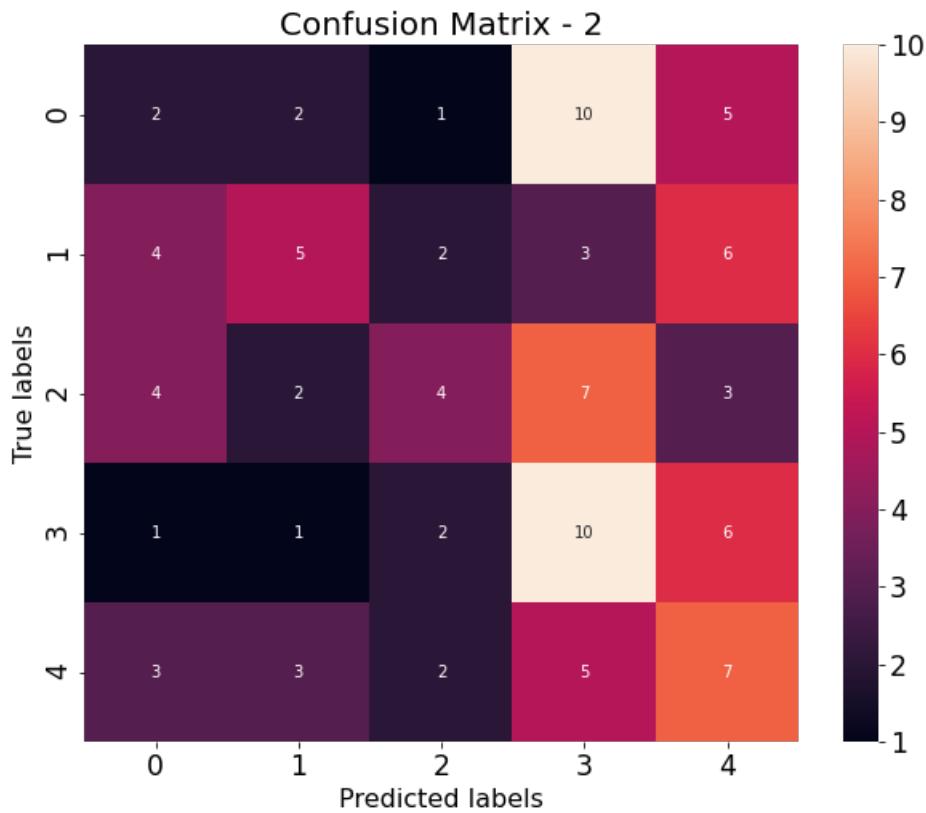
### Categories

Colletidae
Le Chrysotoxe à double ceinture ( <i>Chrysotoxum bicinctum</i> )
Les Hélophiles ( <i>Helophilus</i> , <i>Parhelophilus</i> )
Les Syrittes ( <i>Syritta</i> )
Scathophagidae

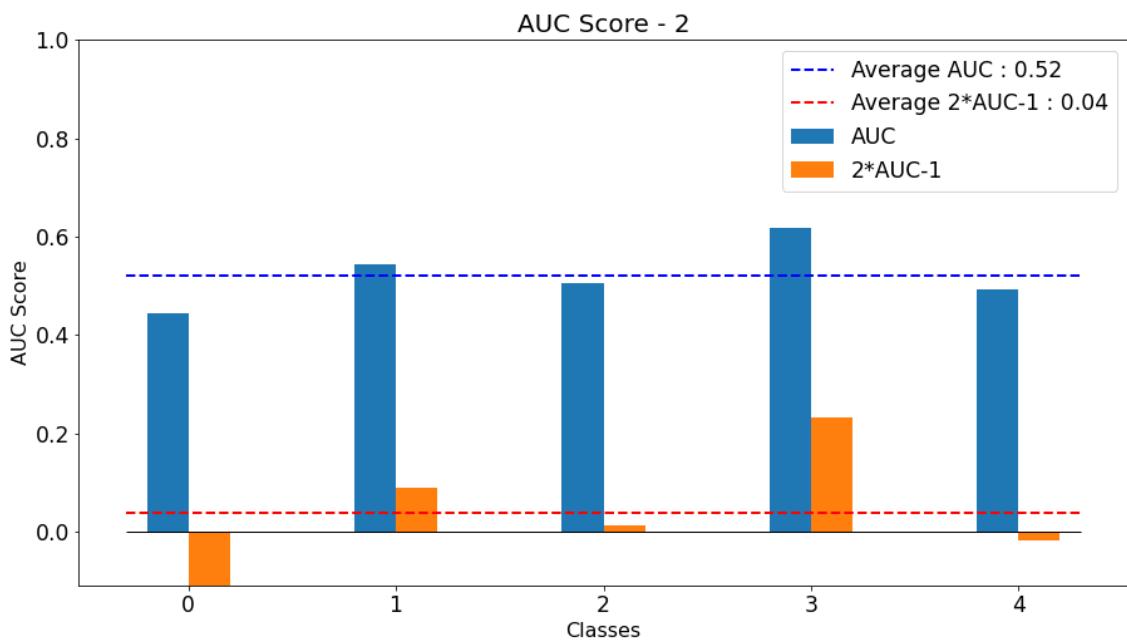
### Accuracy Loss Plot



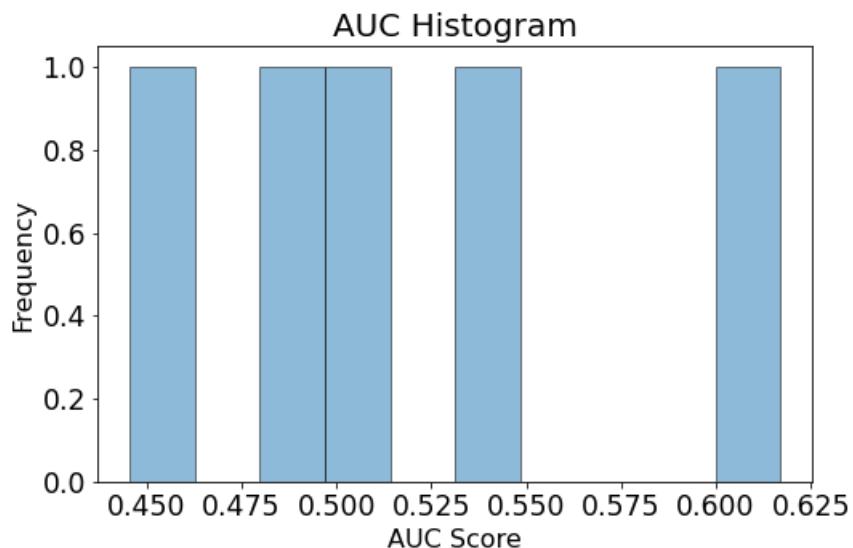
### Confusion Matrix



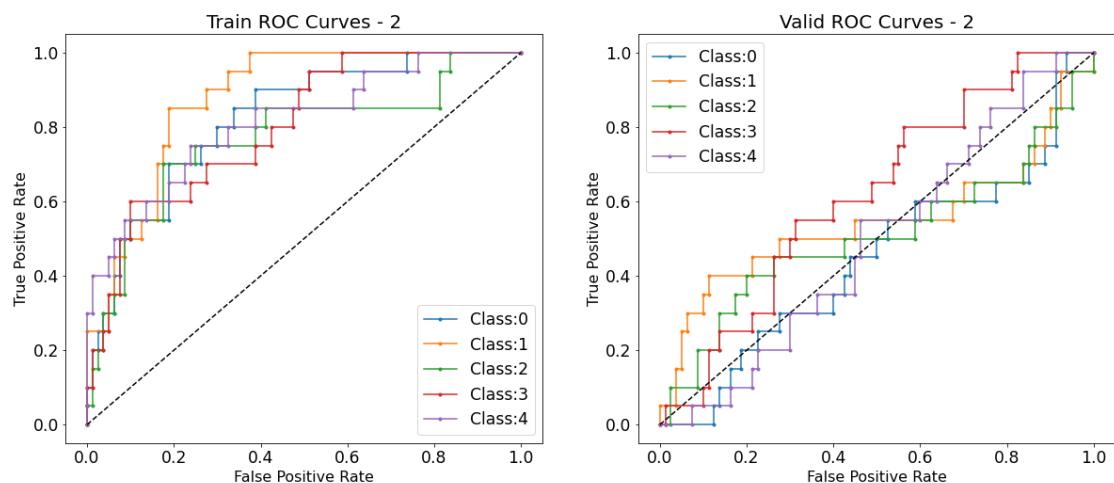
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 3

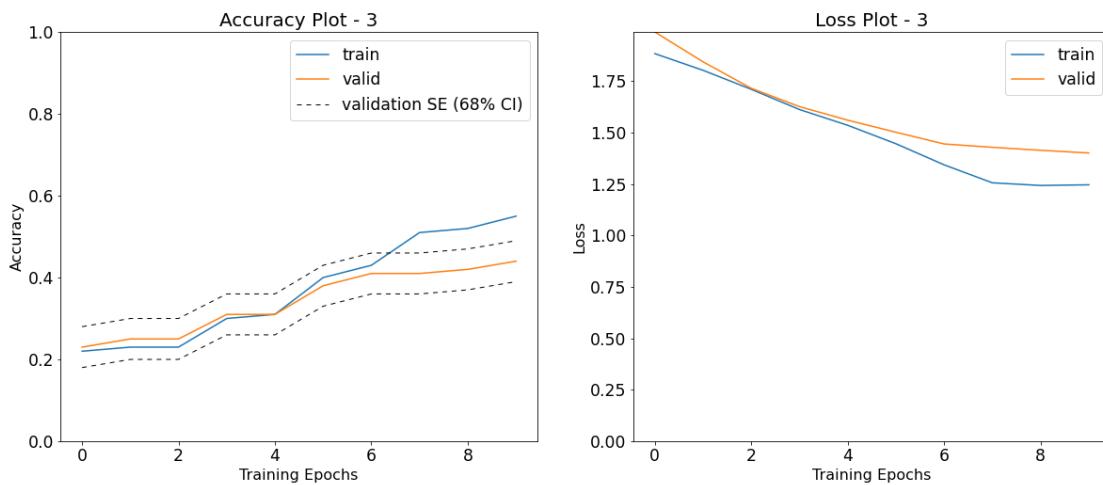
## Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	1m 5s
Best Train Accuracy	0.55
Best Valid Accuracy	0.44
<hr/>	
AUC	0.73
2*AUC-1	0.46
Standard Error	0.05

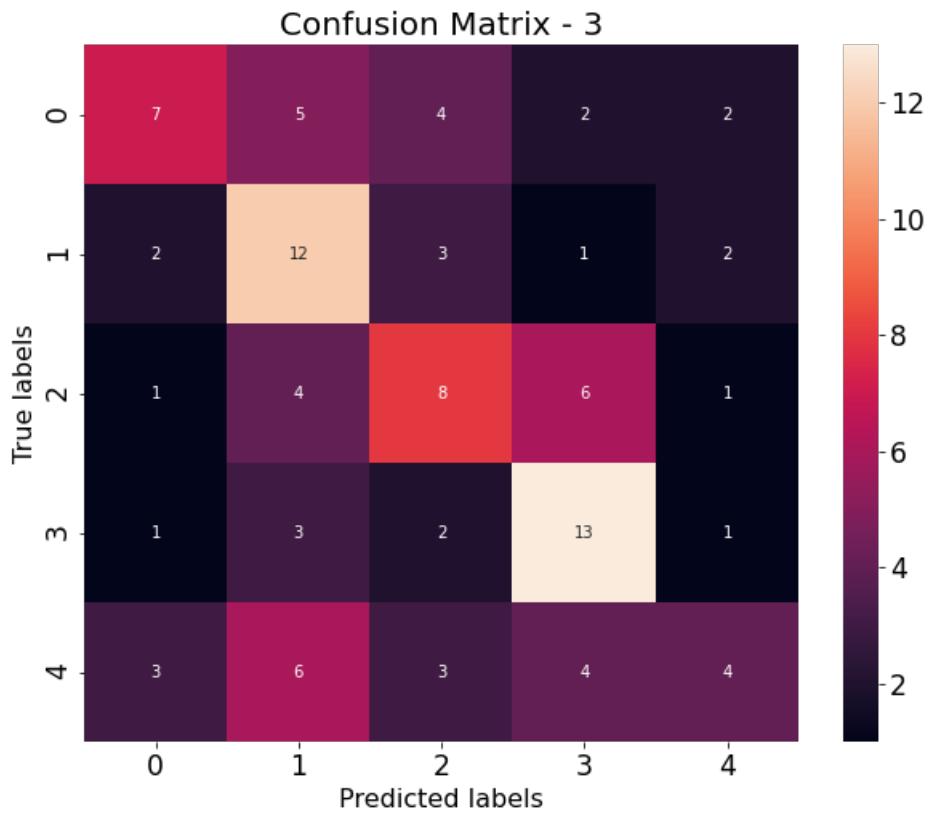
## Categories

Anthomyiidae
L'Anthaxie demi-cuivrÃ©e et autres (Anthaxia)
La Punaise guitare (Phymata crassipes)
La Volucelle vide (Volucella inanis)
Les Syrphes à taches en virgules (Eupeodes, Scaeva)

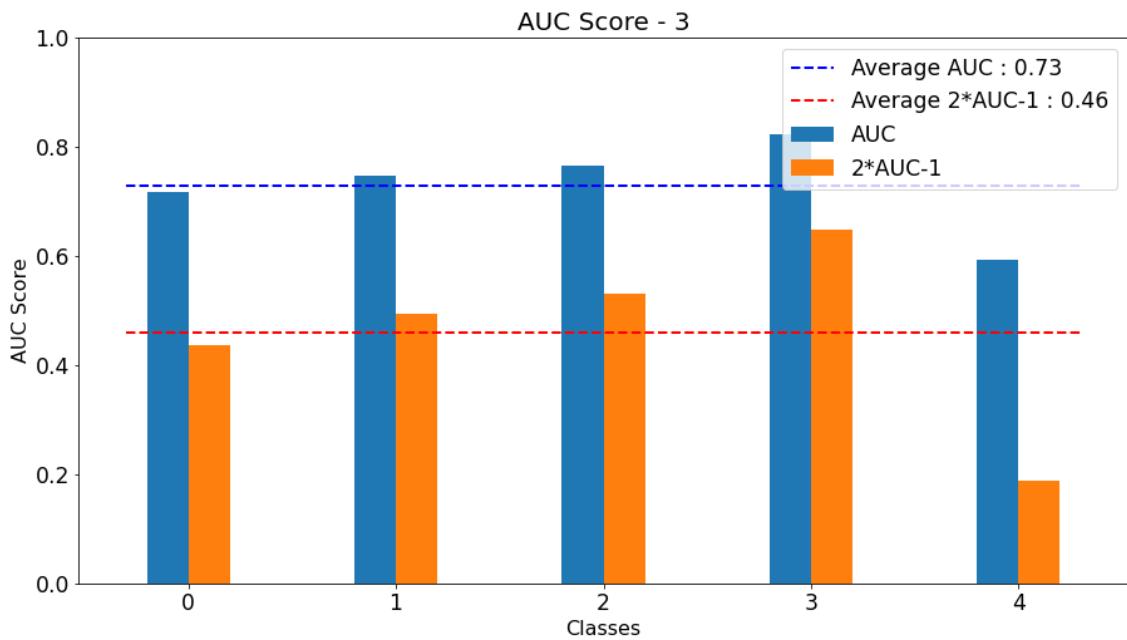
## Accuracy Loss Plot



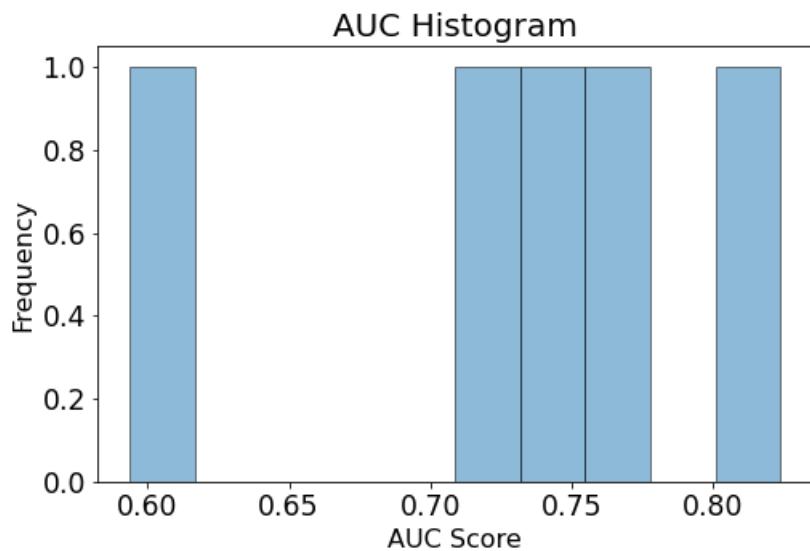
## Confusion Matrix



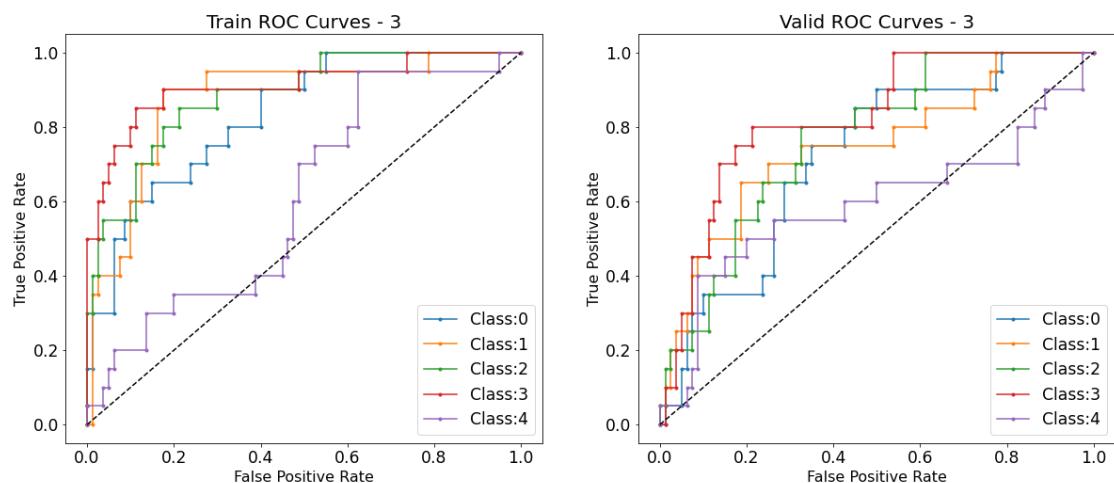
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 4

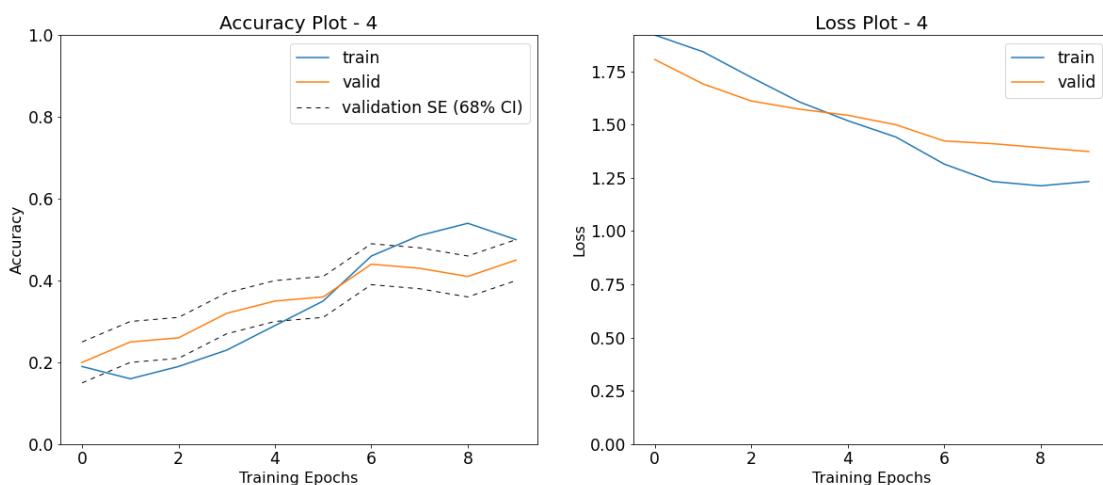
## Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	1m 3s
Best Train Accuracy	0.54
Best Valid Accuracy	0.45
<hr/>	
AUC	0.75
2*AUC-1	0.51
Standard Error	0.05

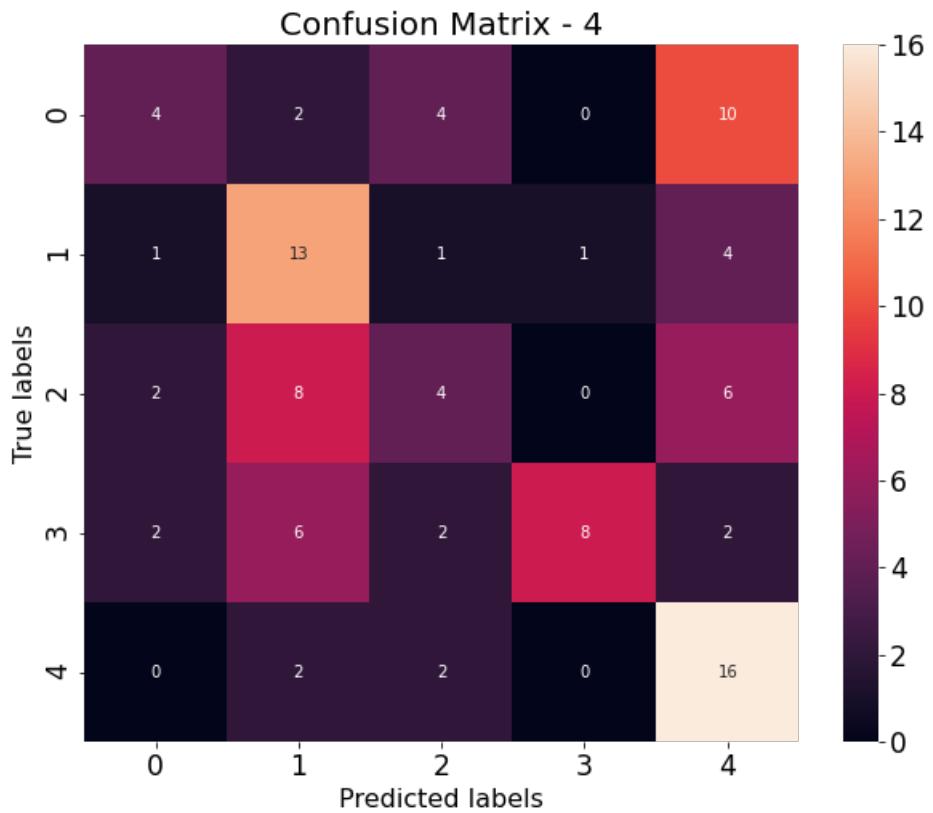
## Categories

Erebidae
Les Chloropides jaunes (Thaumatomyia)
Les Epeires concombre (Araniella)
Les Trichies (Trichius)
Pieridae

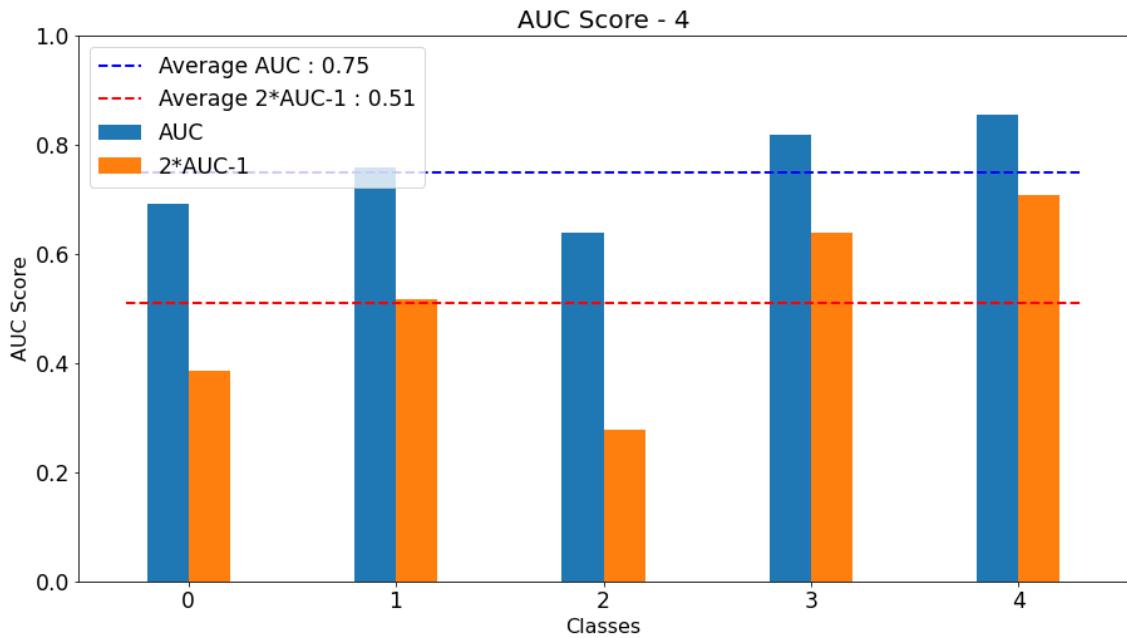
## Accuracy Loss Plot



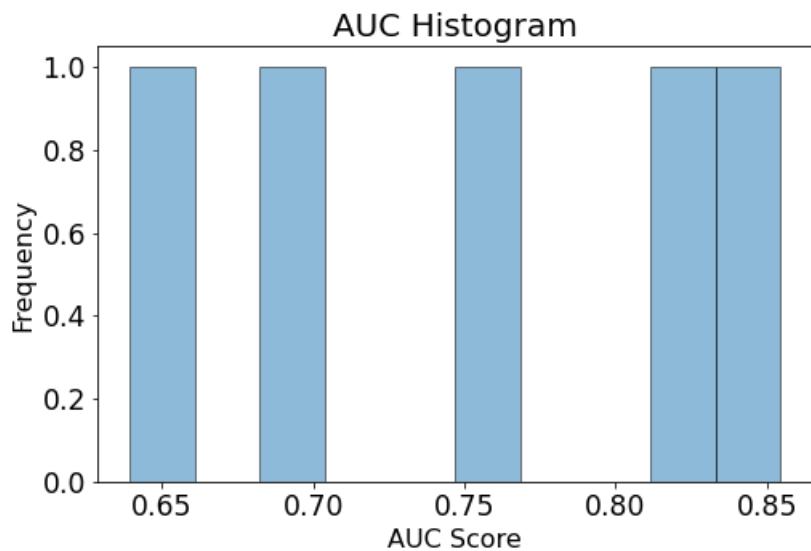
## Confusion Matrix



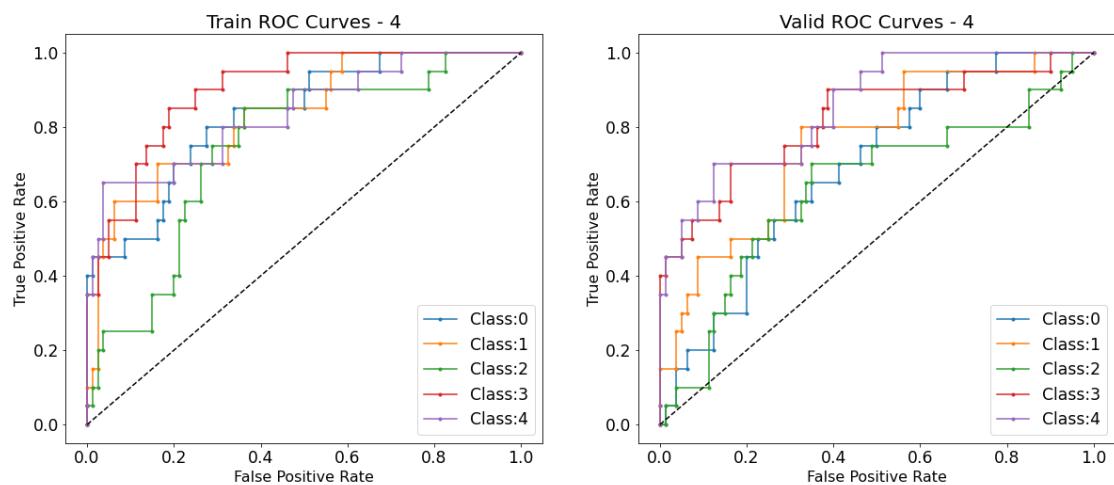
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 5

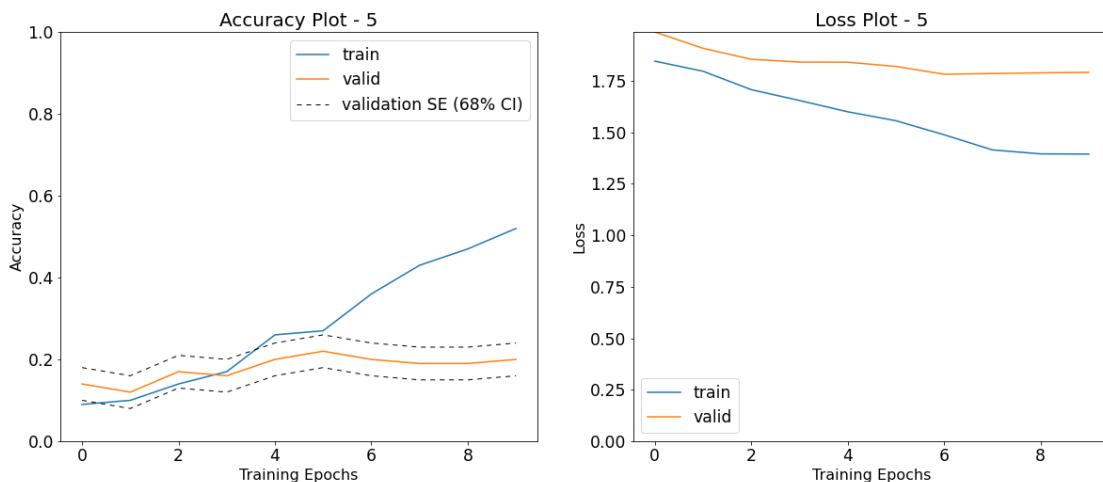
## Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	1m 5s
Best Train Accuracy	0.52
Best Valid Accuracy	0.22
<hr/>	
AUC	0.47
2*AUC-1	-0.05
Standard Error	0.04

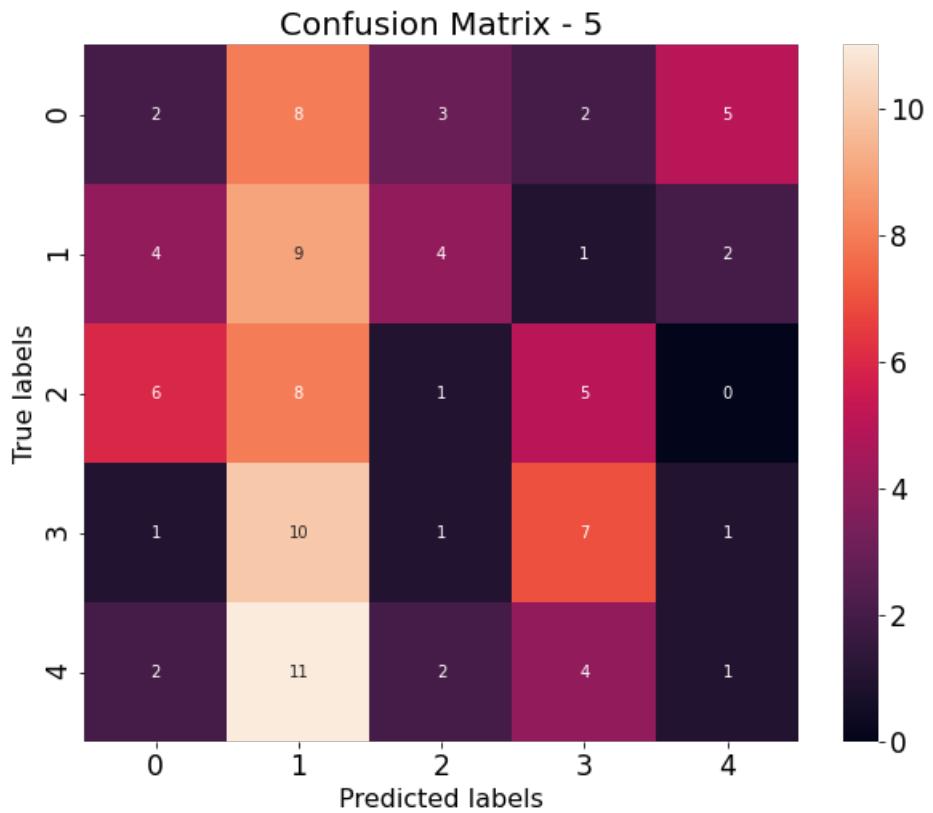
## Categories

Formicidae
Les Adâ“les unies (plusieurs Adelidae)
Les RÃ©duves (Rhynocoris)
Oedemeridae
Sphecidae

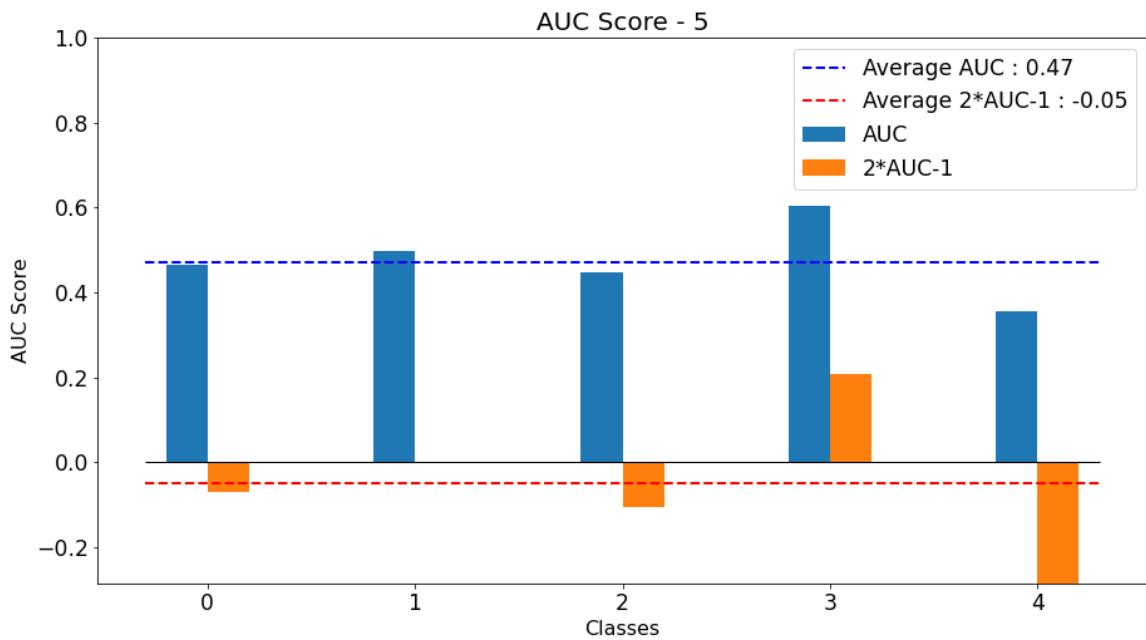
## Accuracy Loss Plot



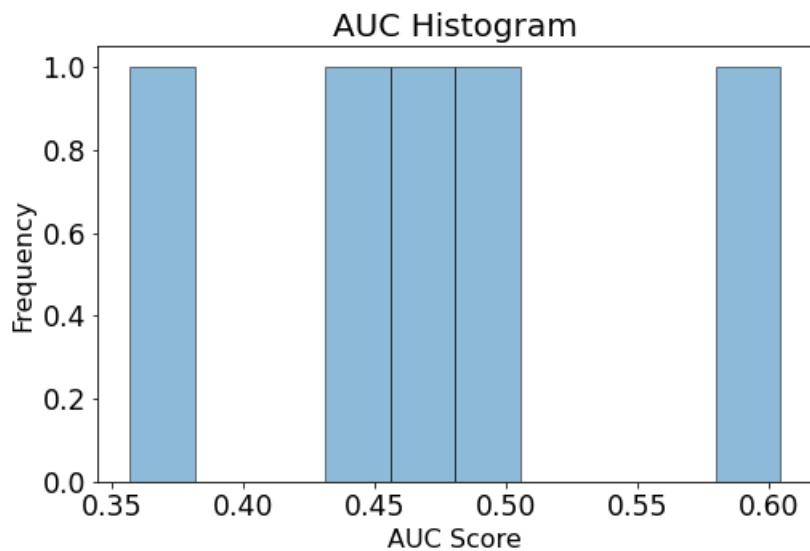
## Confusion Matrix



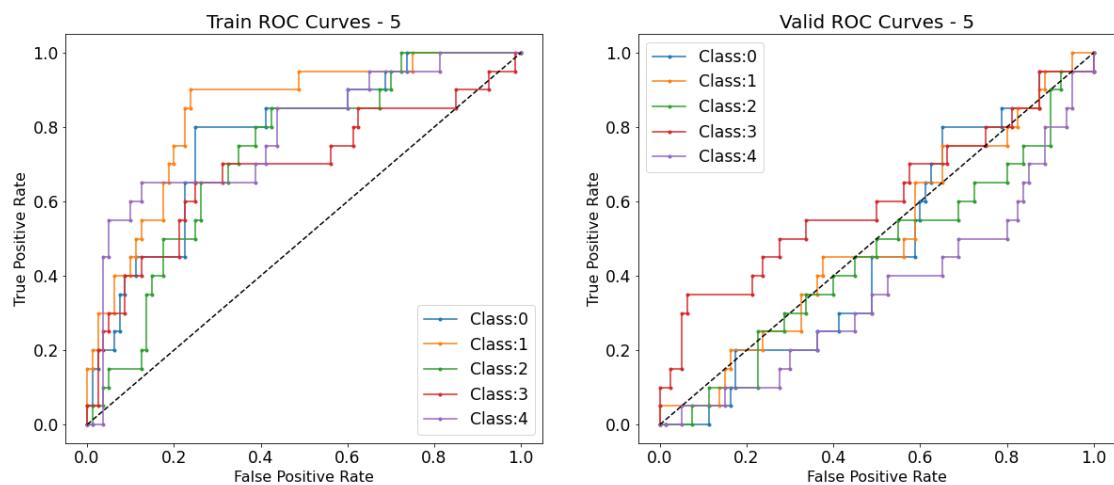
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 6

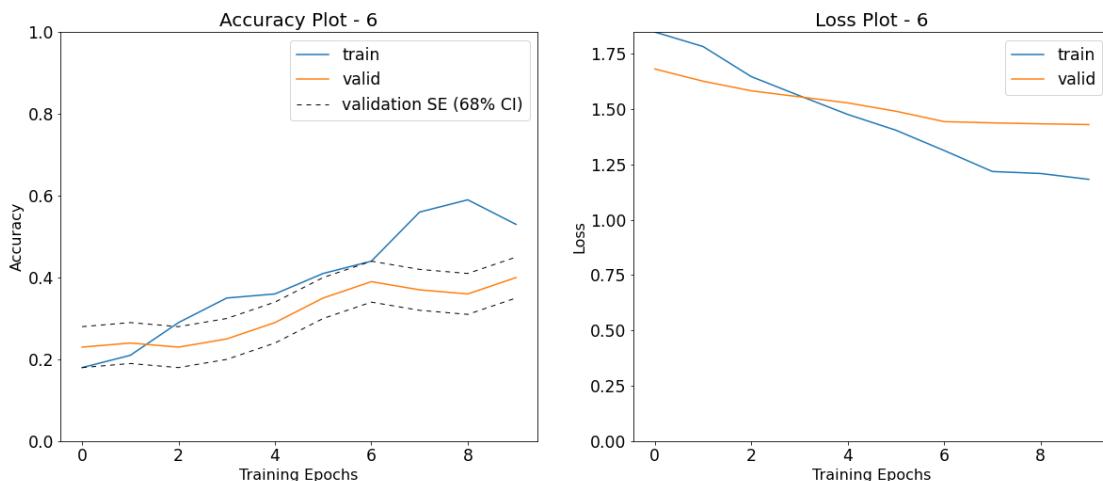
## Statistics

Total Images	200
Train Images	100
Valid Images	100

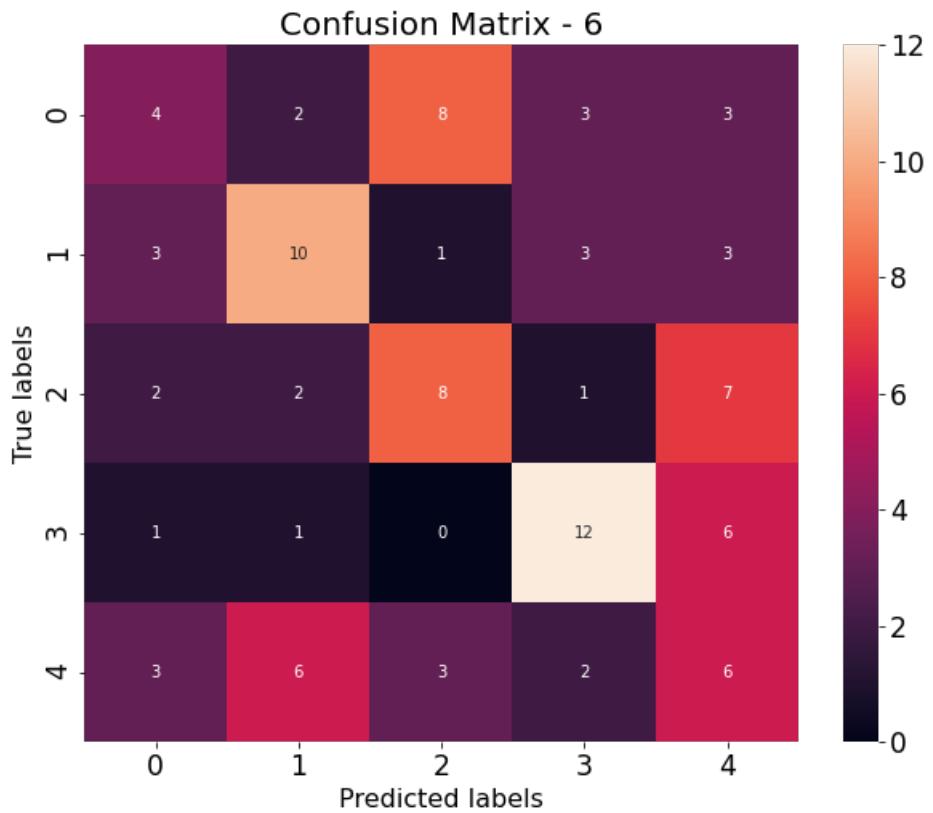
## Categories

Cantharidae
Les Cétoines métalliques à marques blanches (Cetonia, Protaetia)
Les Ulidides allongés (Dorycera, Otites)
Les Zygaènes à taches simples (Zygaena)
Muscidae

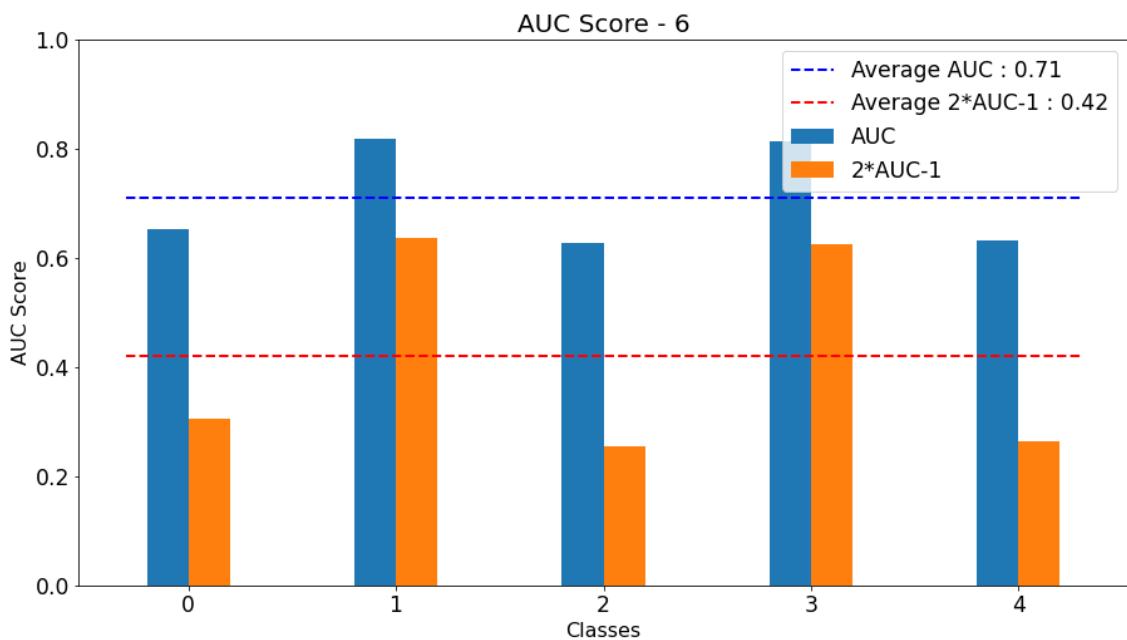
## Accuracy Loss Plot



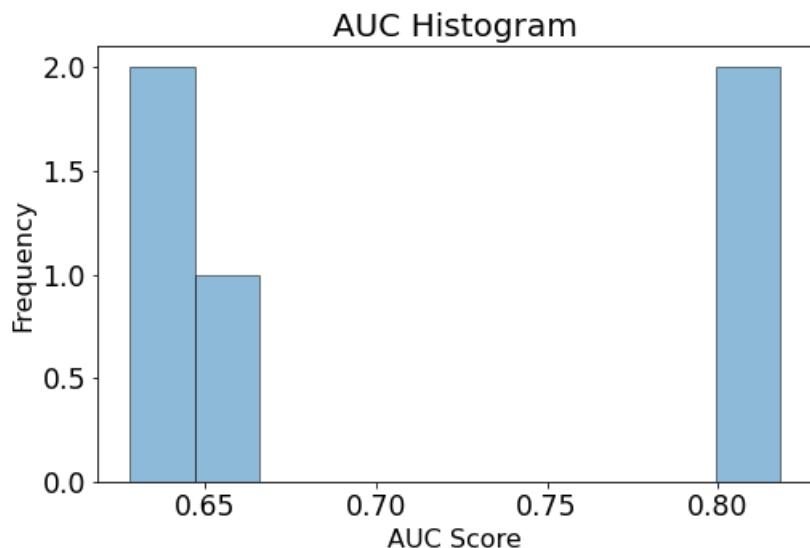
## Confusion Matrix



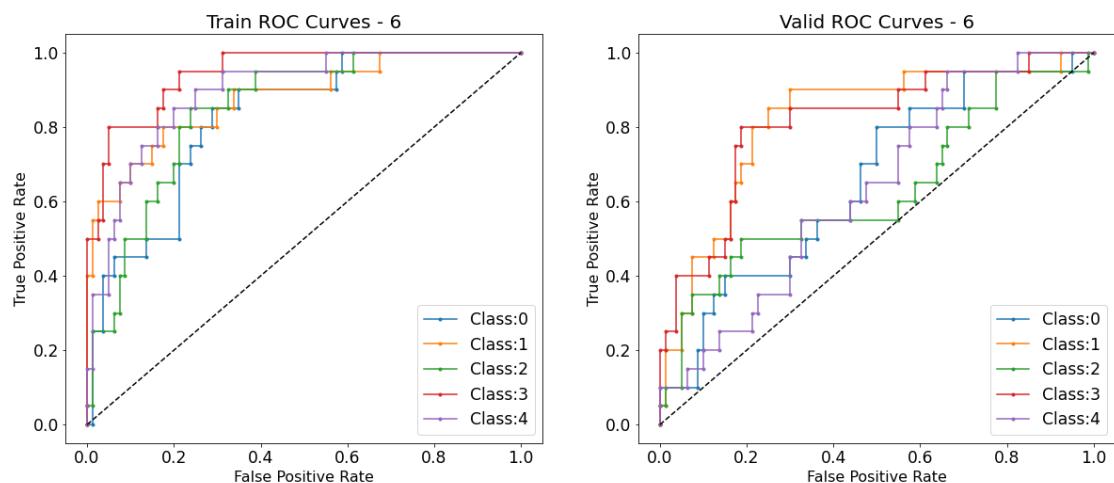
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 7

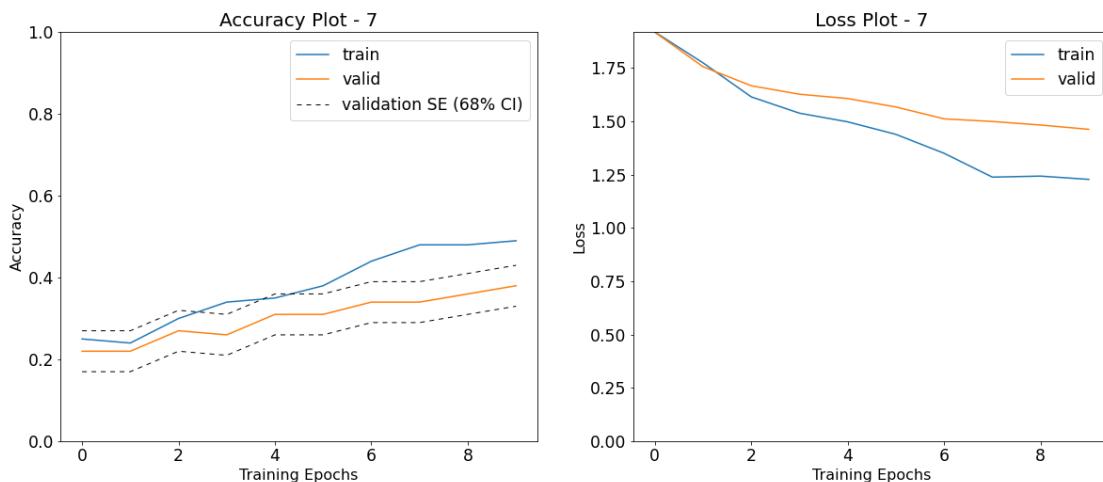
## Statistics

Total Images	200
Train Images	100
Valid Images	100

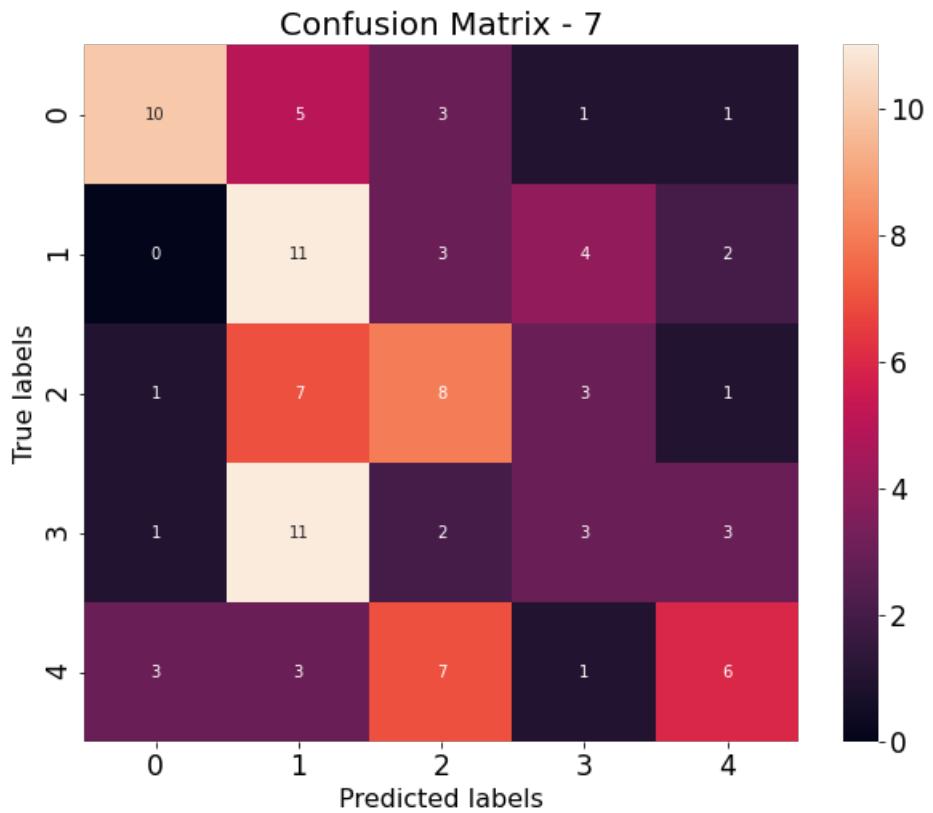
## Categories

Coccinellidae
L'Eristale des fleurs ( <i>Myathropa florea</i> )
Les Charançons verts ( <i>Phyllobius</i> , <i>Polydrusus</i> )
Les Syrphes Syrphus et autres ( <i>Syrphus</i> , <i>Dasyphorus</i> et autres)
Rhopalidae

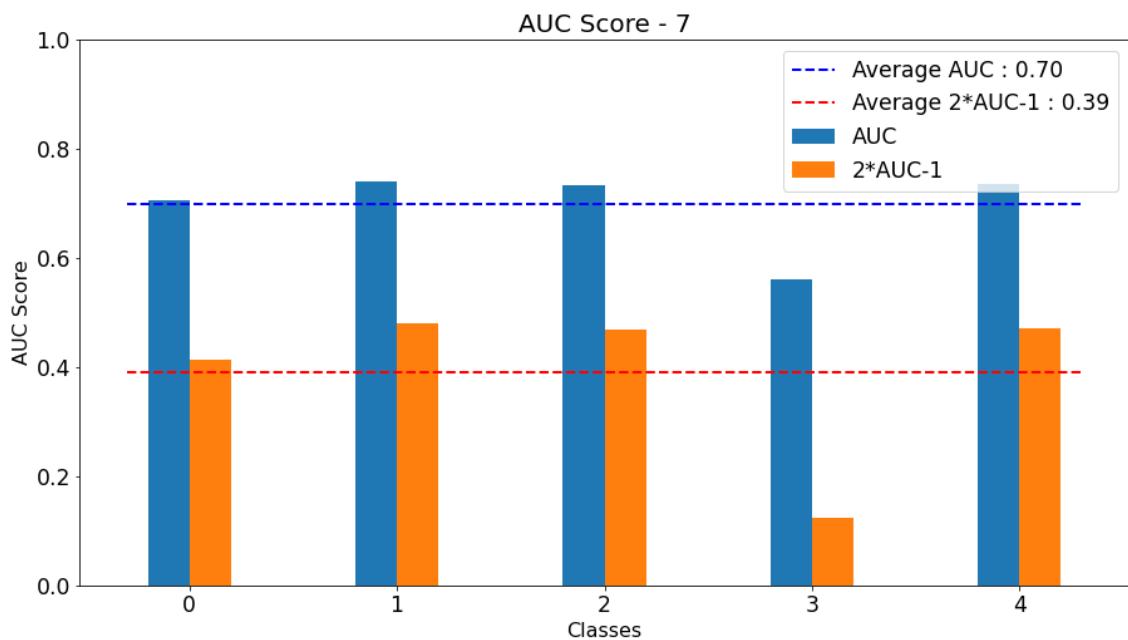
## Accuracy Loss Plot



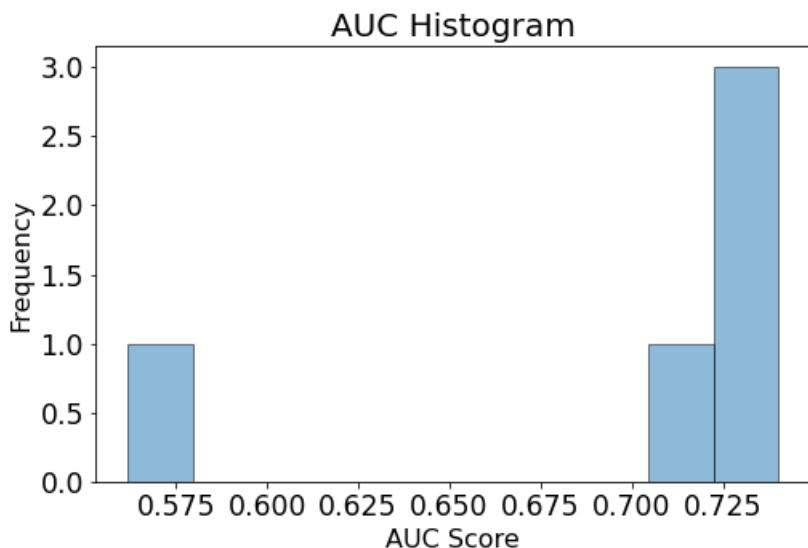
## Confusion Matrix



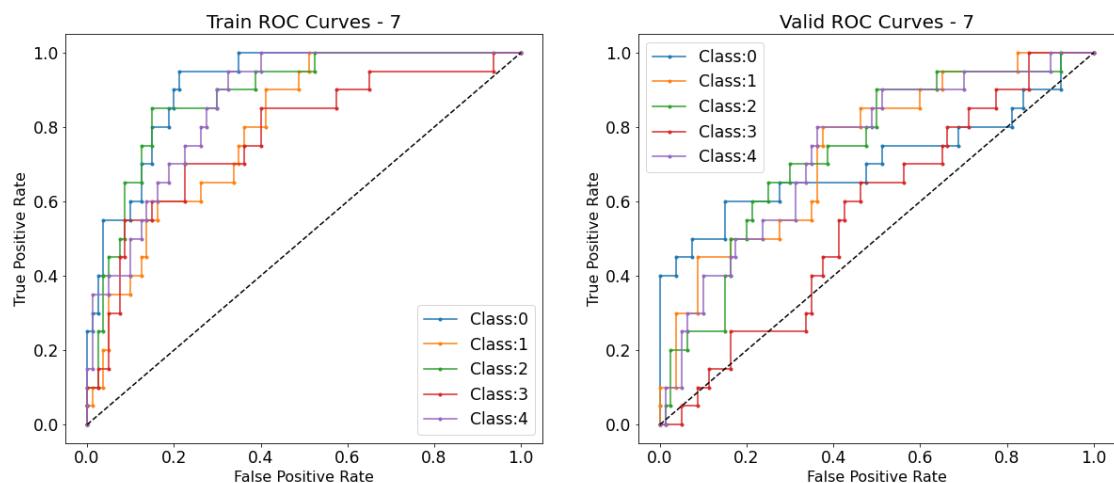
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 8

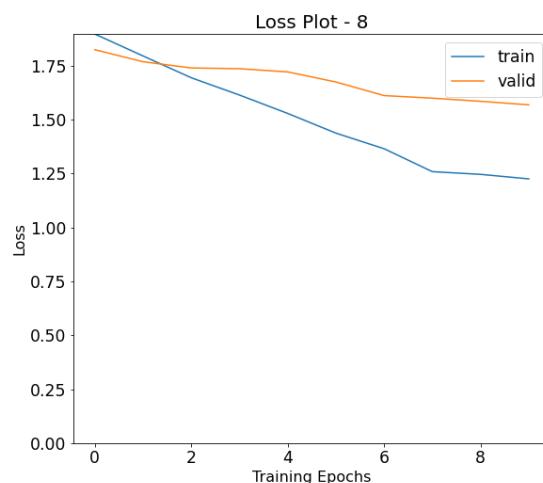
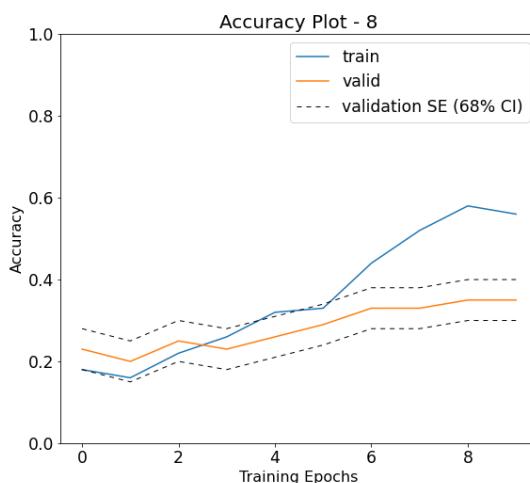
## Statistics

Total Images	200
Train Images	100
Valid Images	100

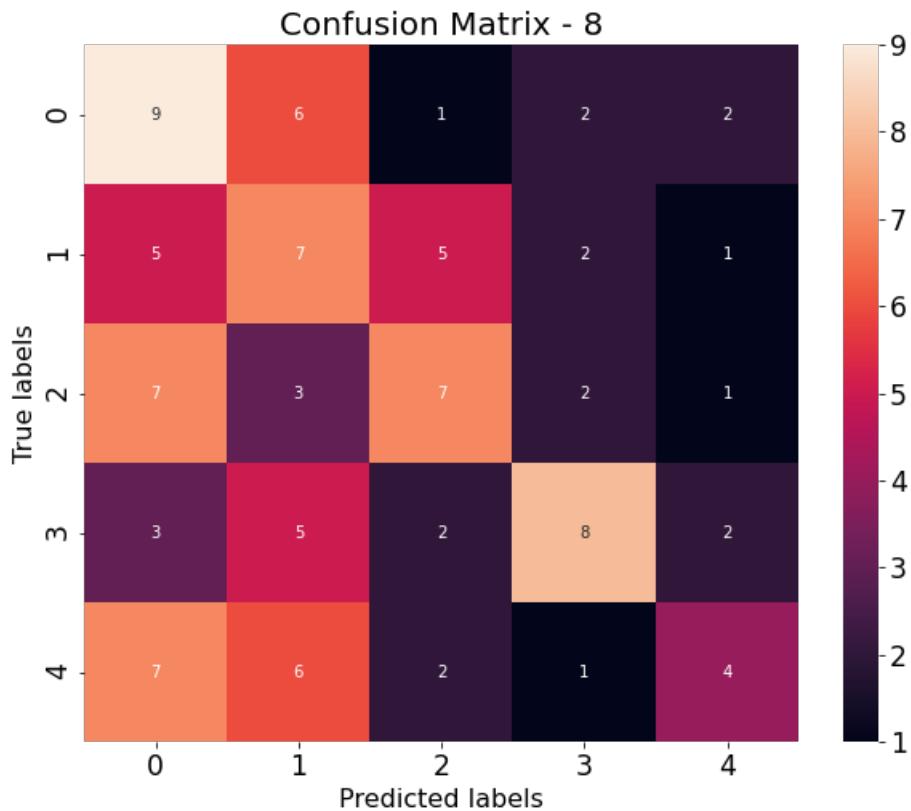
## Categories

Cerambycidae
Cleridae
Les Buprestes & points (Acmaeodera et autres)
Mordellidae
Pentatomidae

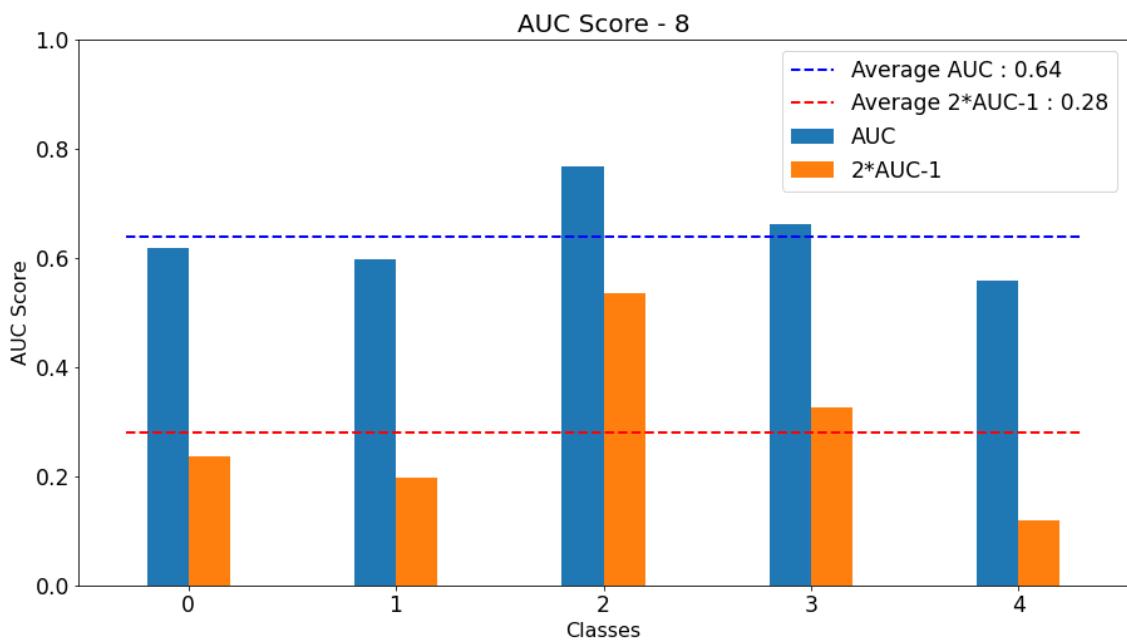
## Accuracy Loss Plot



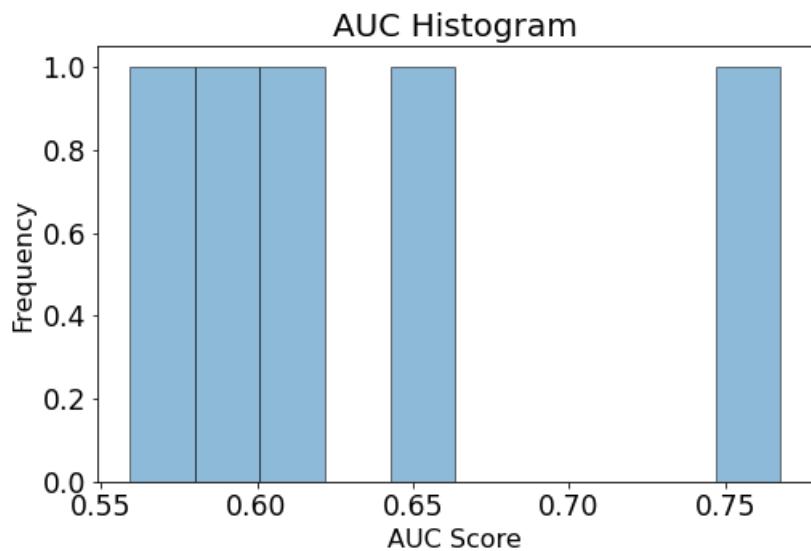
## Confusion Matrix



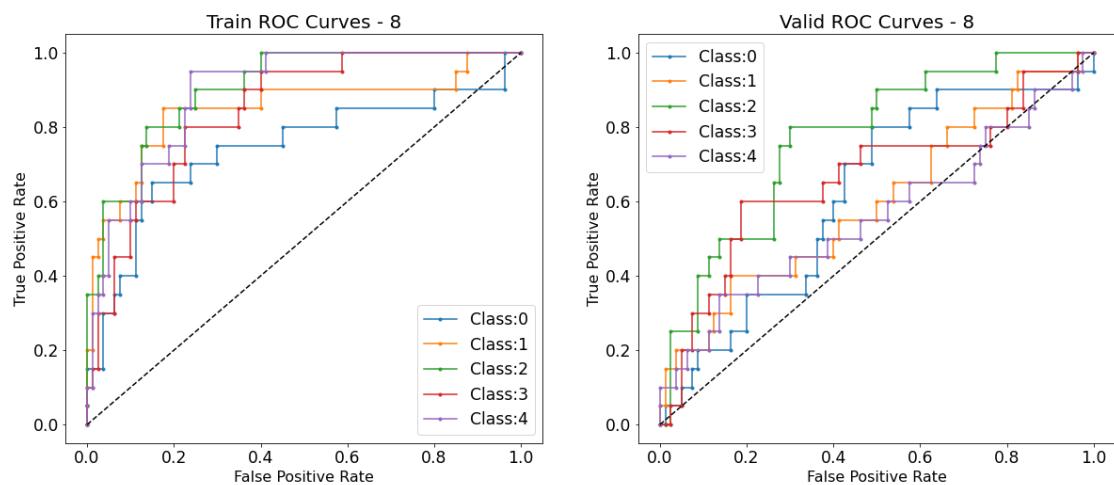
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 9

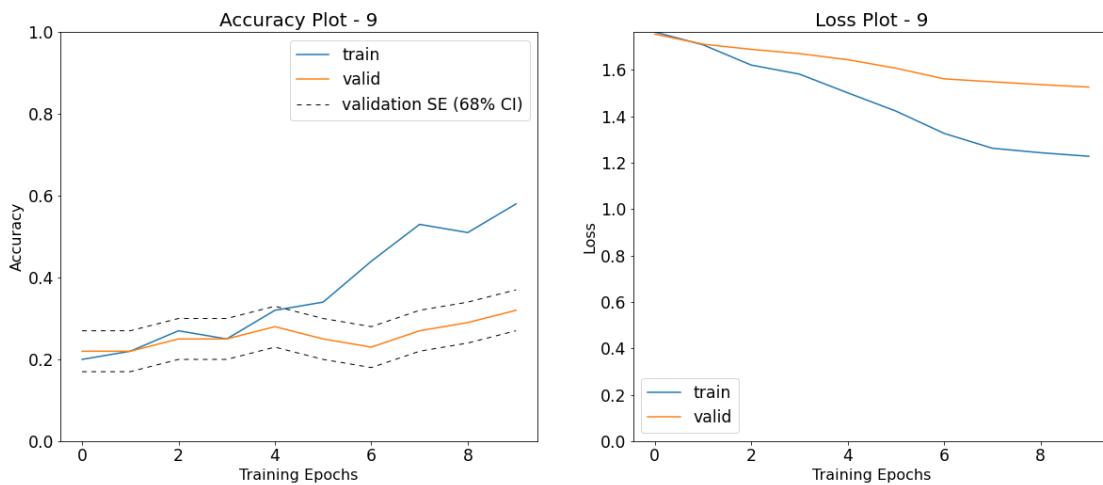
## Statistics

Total Images	200
Train Images	100
Valid Images	100

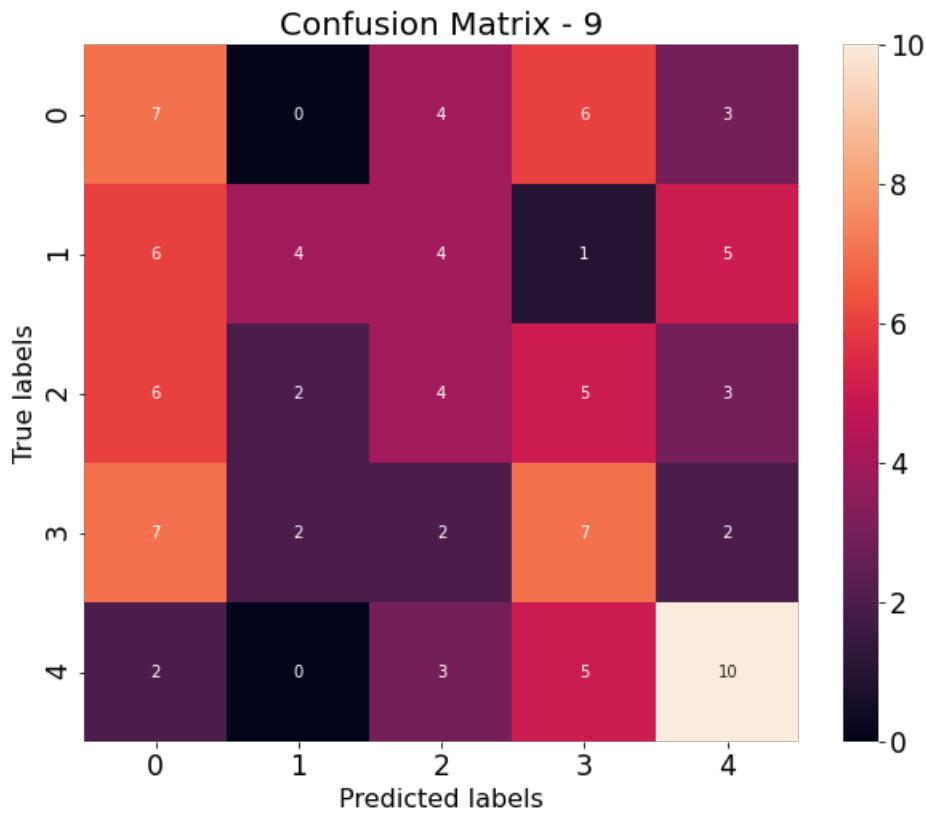
## Categories

La Ferdinandea cuprea (Ferdinandea cuprea)
La Volucelle zonée (Volucella zonaria)
Le Syrphe ceinturé (Episyrphus balteatus)
Les Stratiomes mâtalliques fins (Sargus et autres)
Les Ulidides mâtalliques (Physiphora et autres)

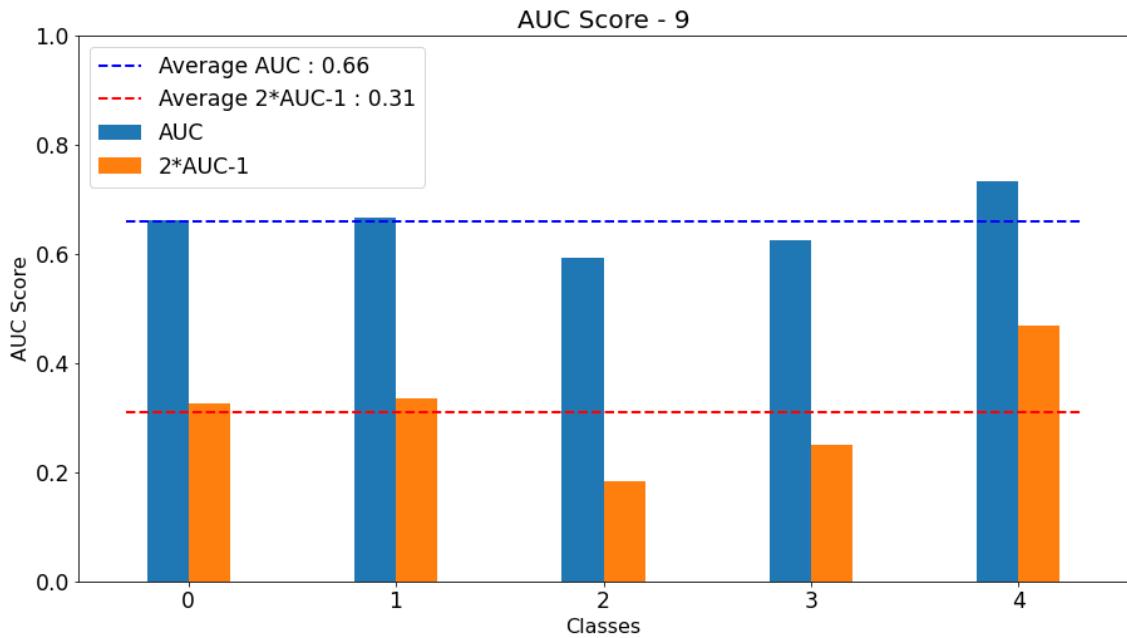
## Accuracy Loss Plot



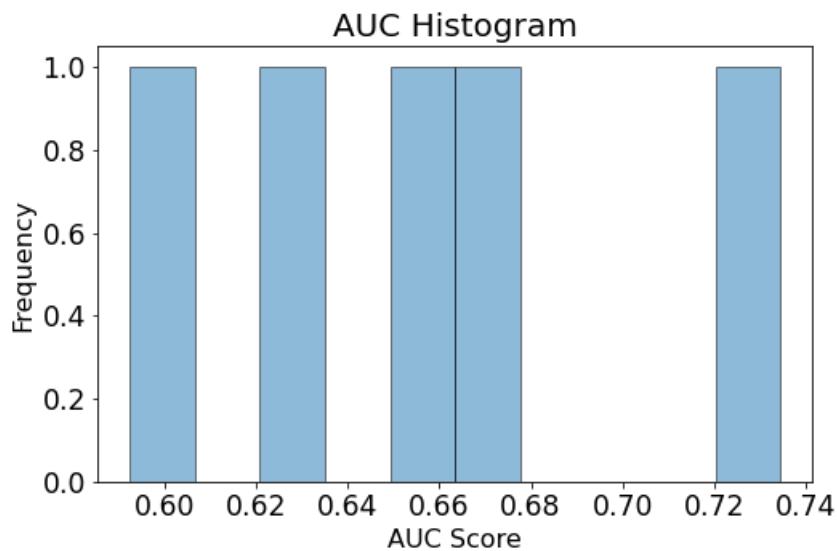
## Confusion Matrix



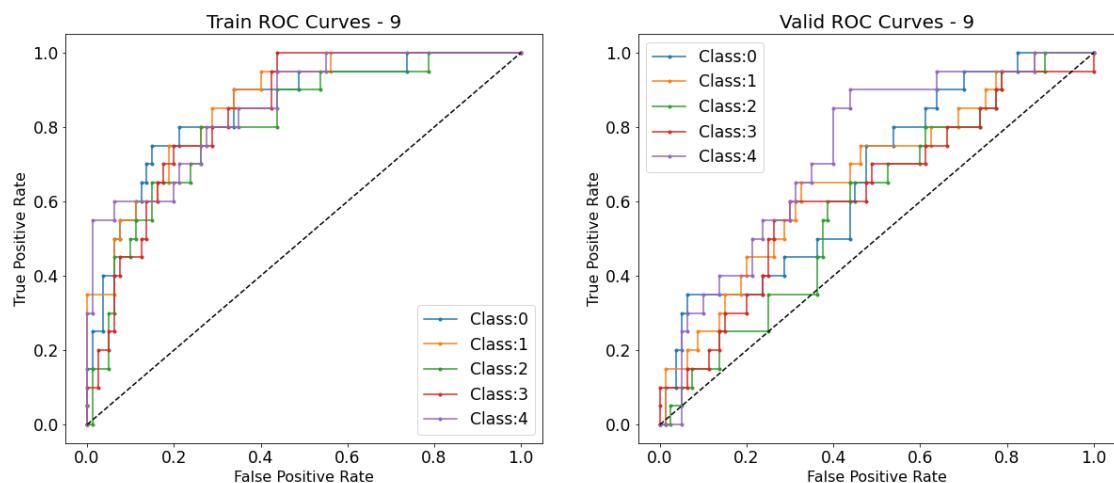
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 10

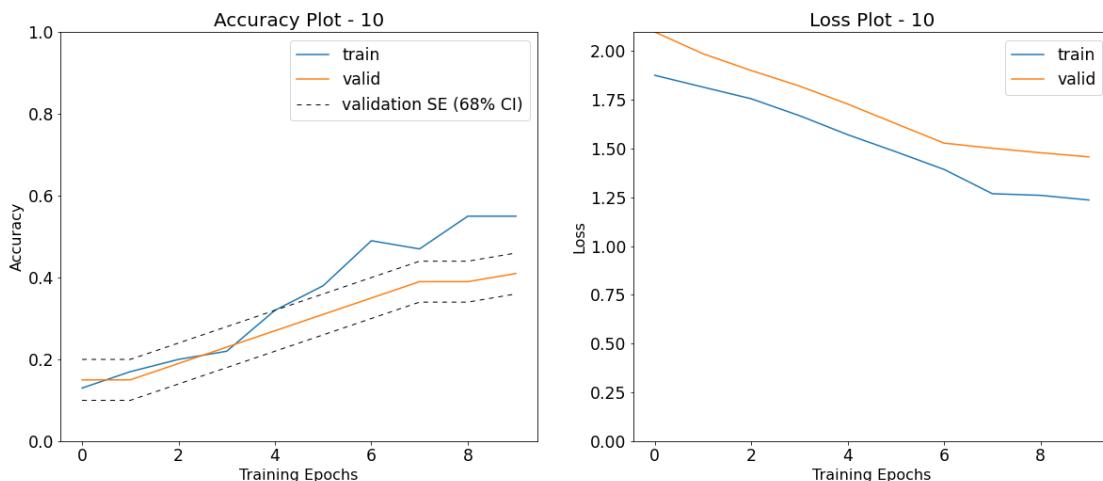
## Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	1m 3s
Best Train Accuracy	0.55
Best Valid Accuracy	0.41
AUC	0.71
2*AUC-1	0.41
Standard Error	0.05

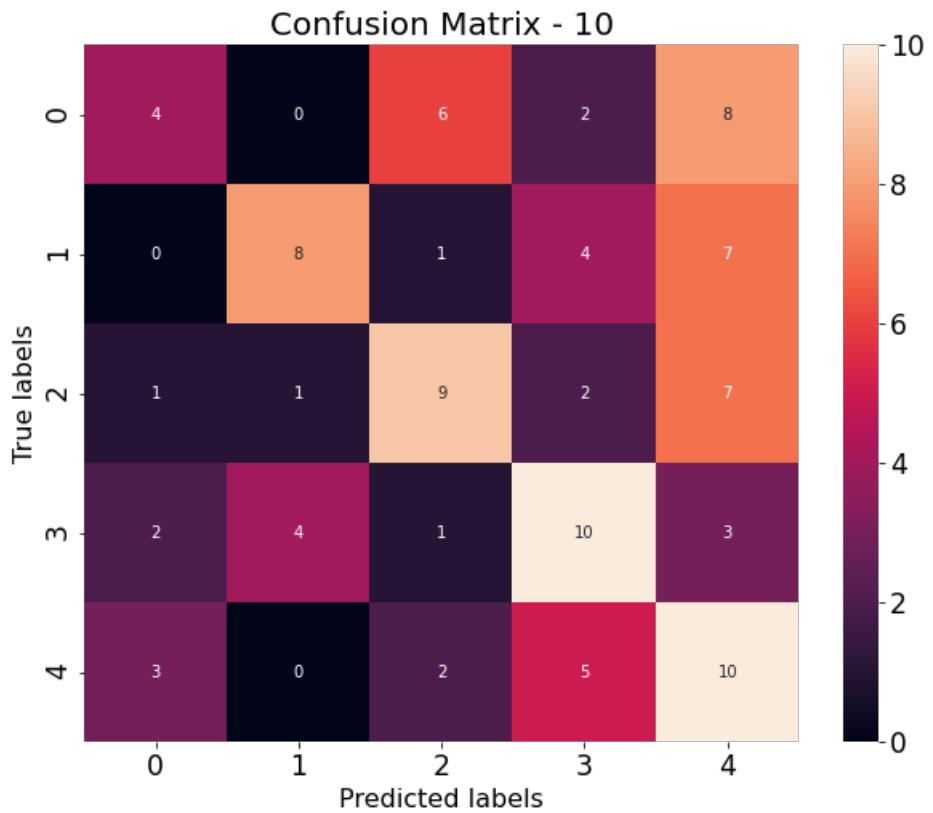
## Categories

Chrysomelidae
Hesperiidae
Le Syrphe porte-plume (mâle) (Sphaerophoria scripta)
Les Taons clairs (Atylotus, Silvius)
Pyrochroidae

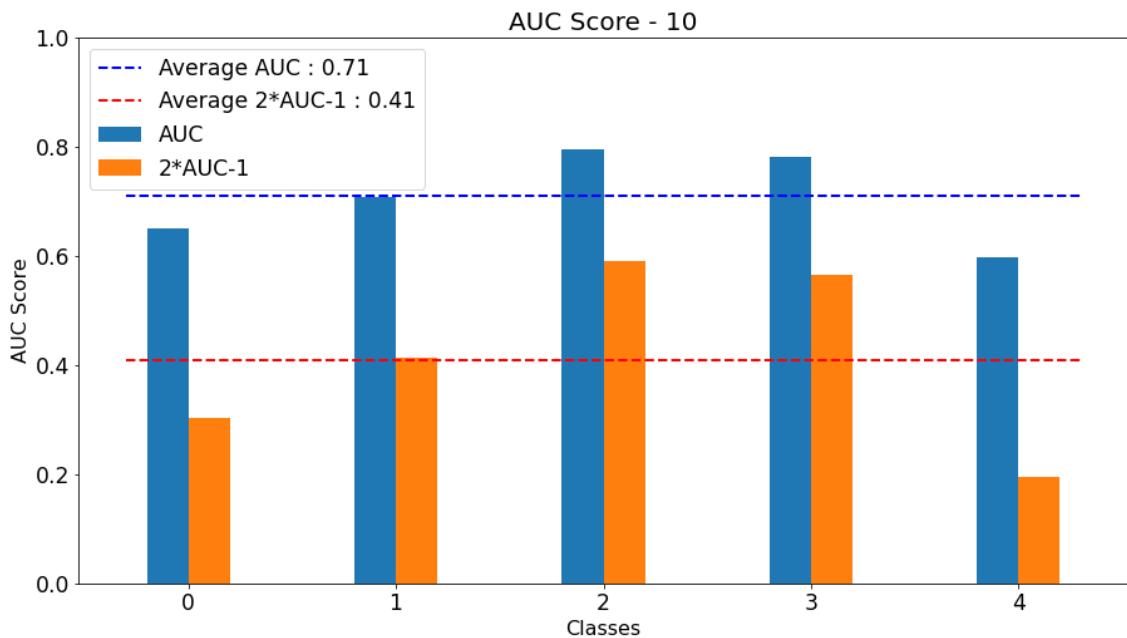
## Accuracy Loss Plot



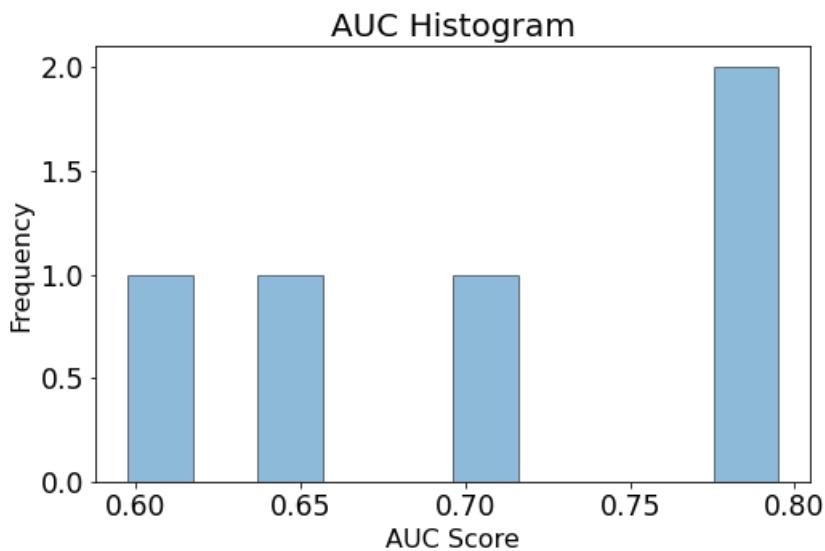
## Confusion Matrix



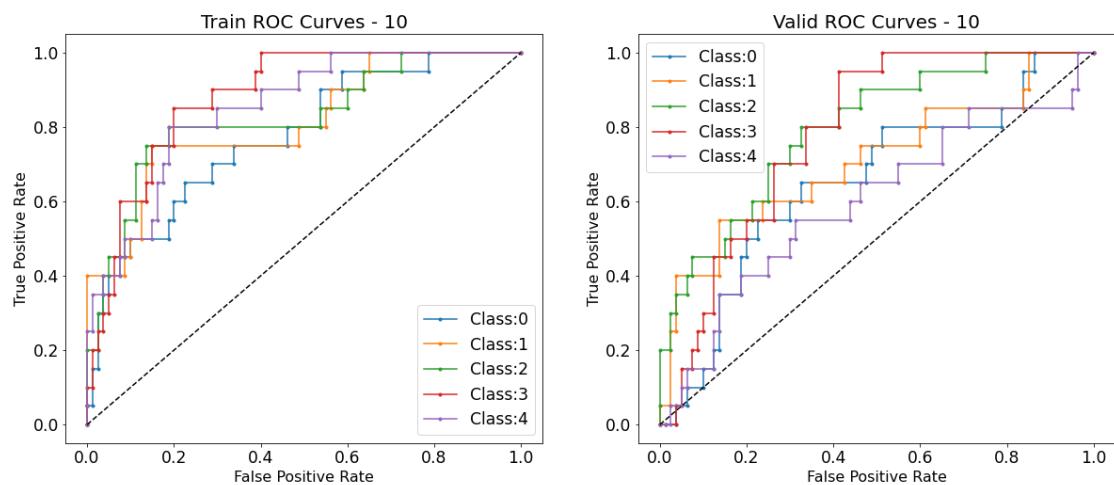
## AUC



## AUC Histogram



### ROC Curves



### Sample Images



### Wrongly Classified Images



# Super-Category 11

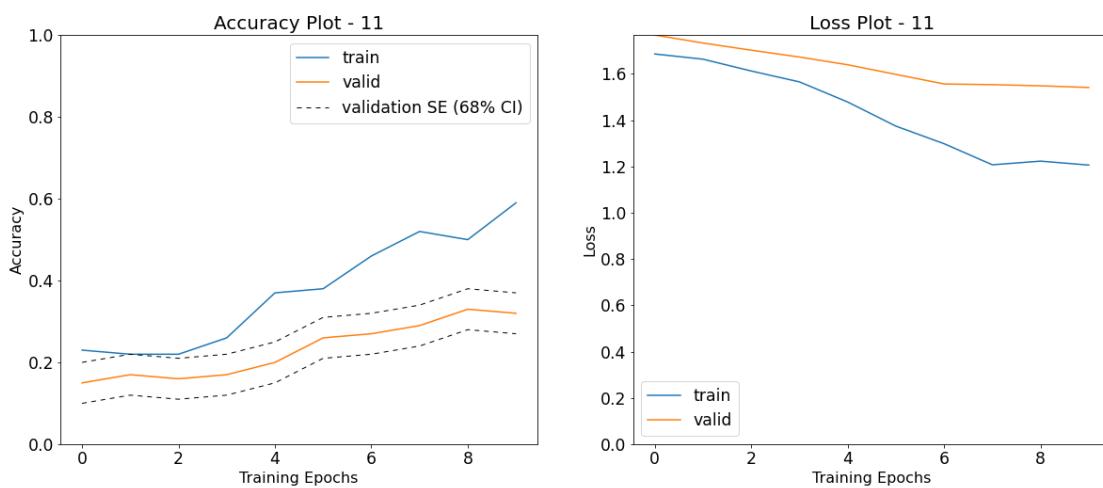
## Statistics

Total Images	200
Train Images	100
Valid Images	100

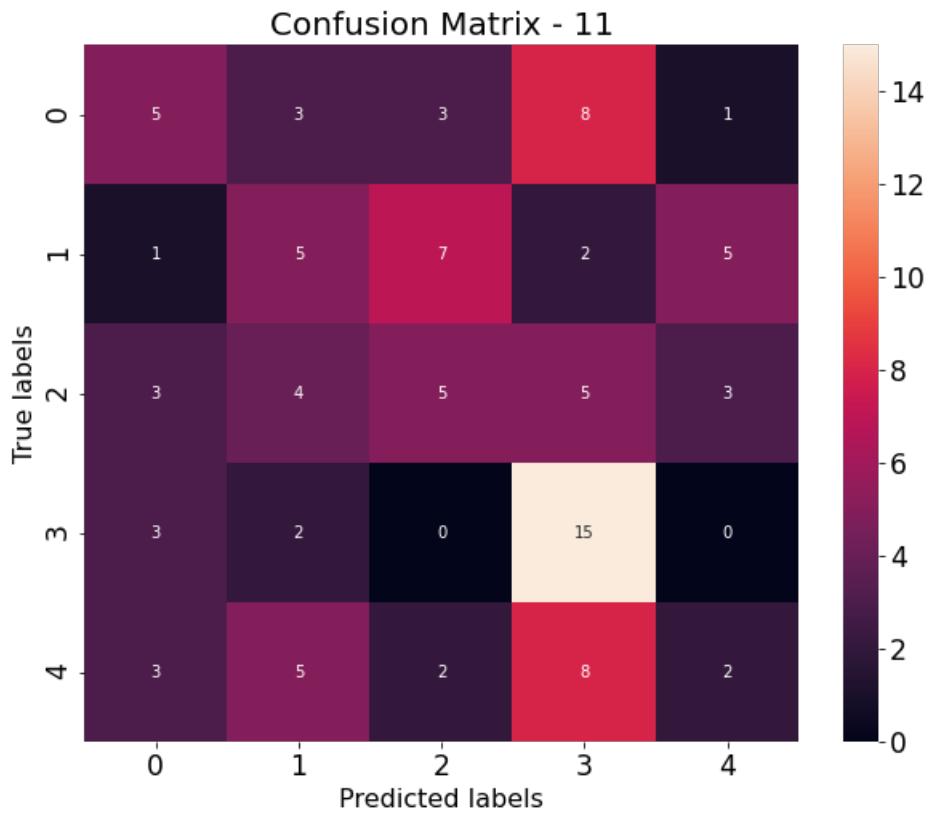
## Categories

L'Hoplie argentée ( <i>Hoplia argentea</i> )
Le Bibion prêcoce (femelle) ( <i>Bibio hortulanus</i> )
Les Bibions et autres (Bibio et autres)
Les Cécioines sombres soyeuses ( <i>Tropinota</i> )
Scaptiidae

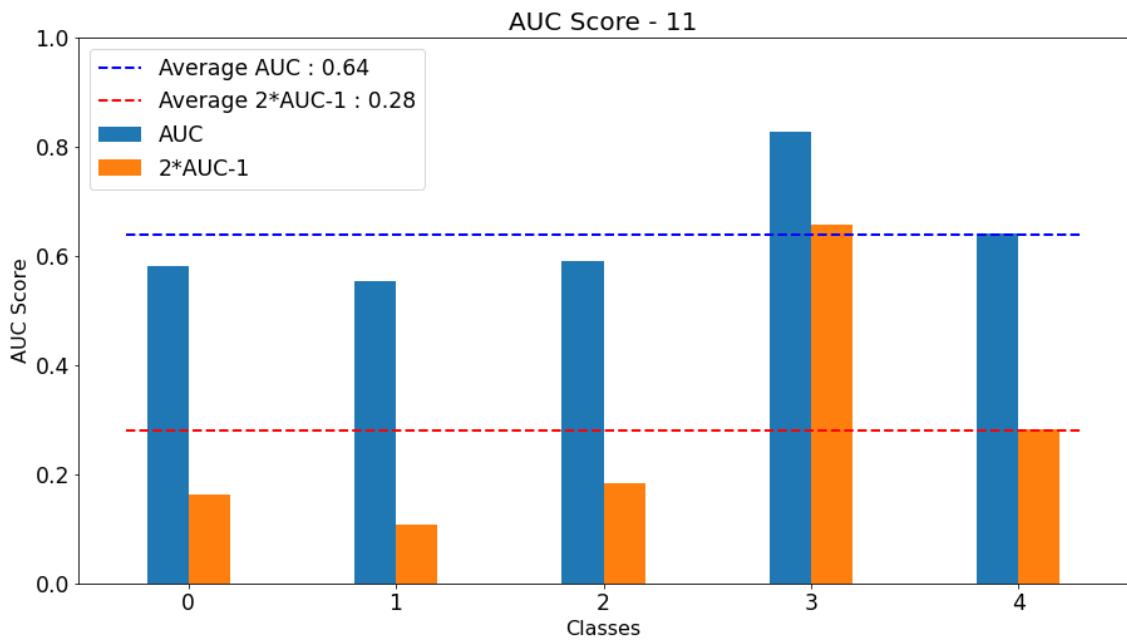
## Accuracy Loss Plot



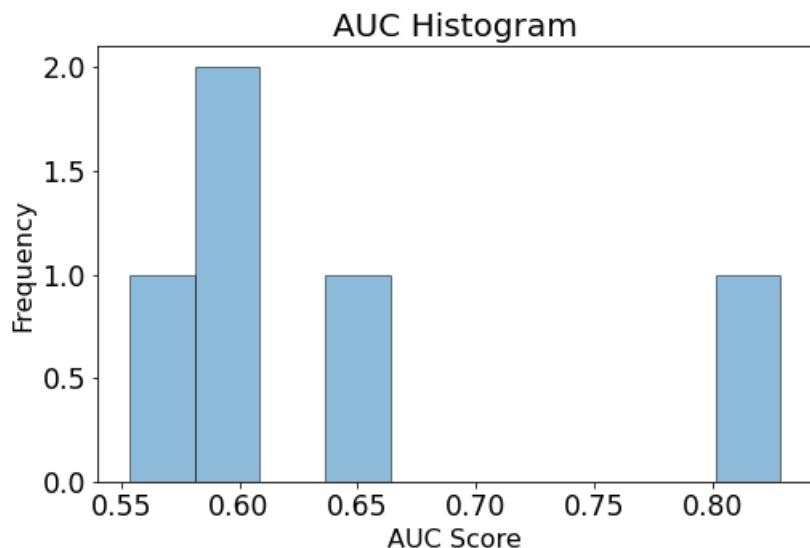
## Confusion Matrix



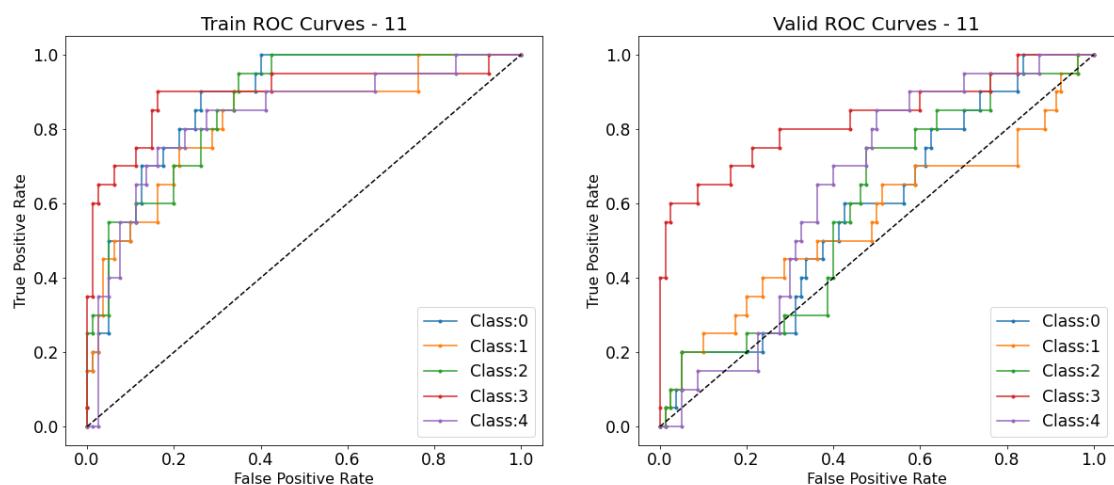
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 12

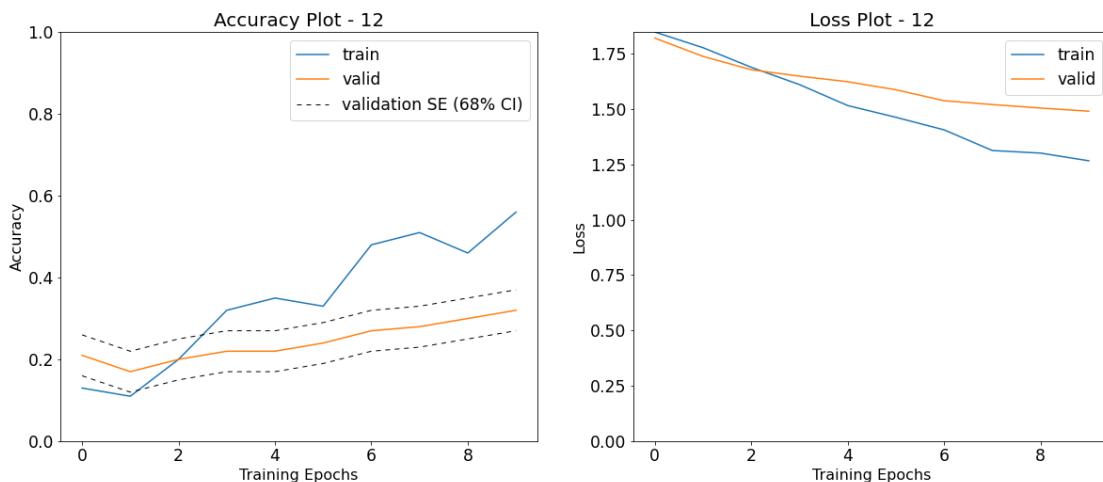
## Statistics

Total Images	200
Train Images	100
Valid Images	100

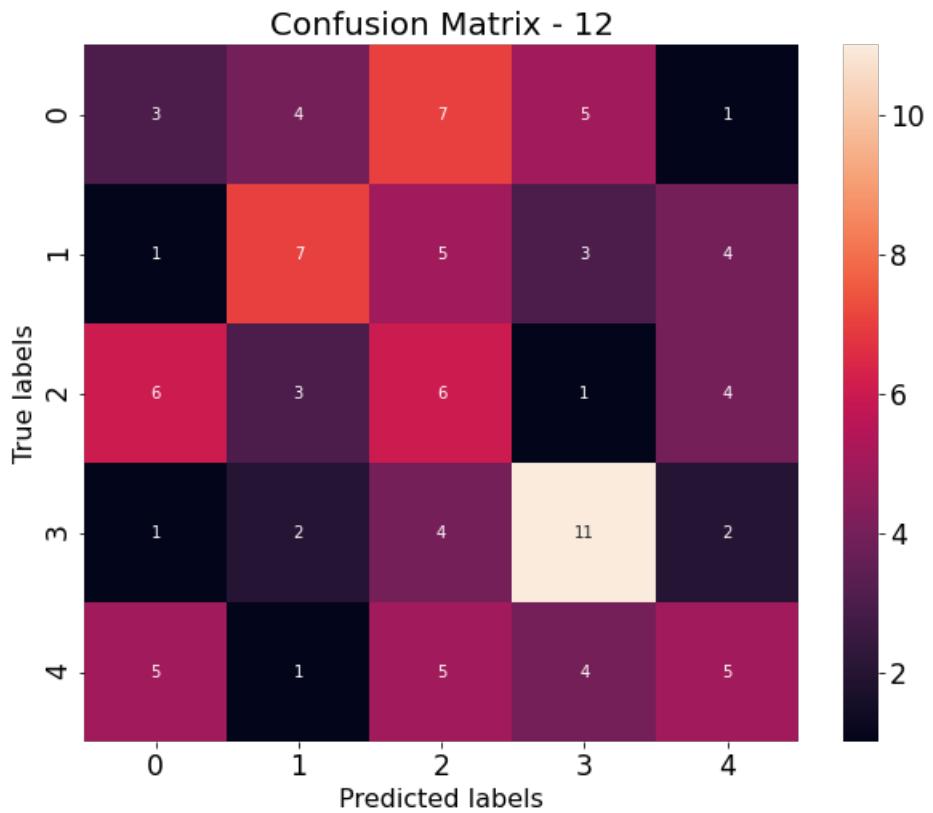
## Categories

Halictidae
La Valgue hÃ©miptÃ¨re ( <i>Valgus hemipterus</i> )
Les AdÃ©les Ã  motifs (plusieurs Adelidae)
Les Syrphes Ã  l'aspect de bourdon (Merodon et autres)
Malachiidae

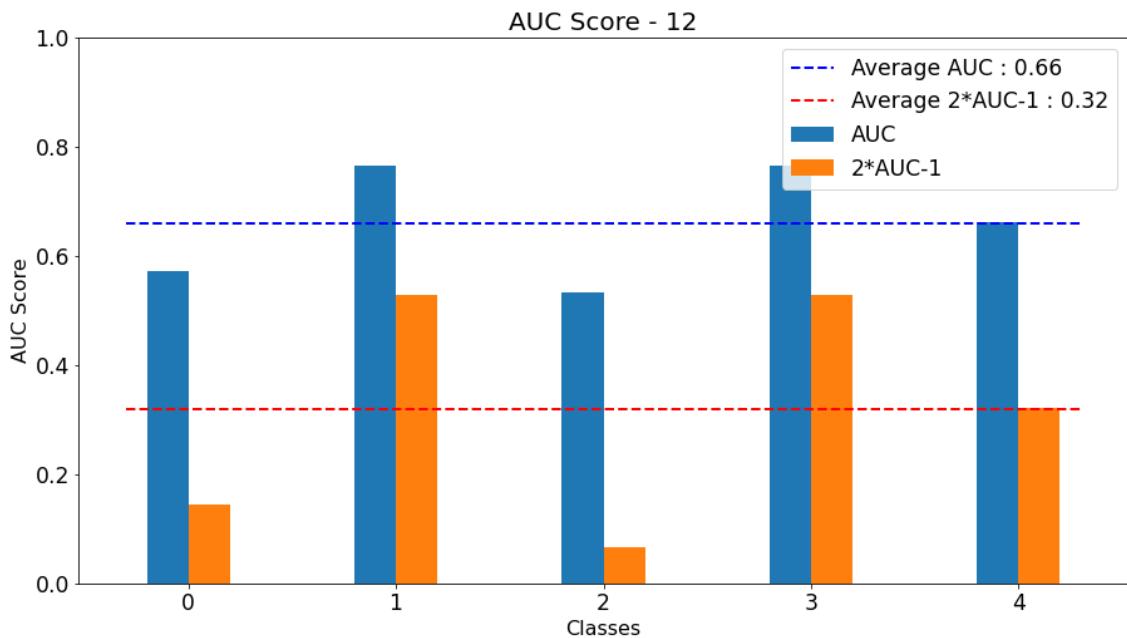
## Accuracy Loss Plot



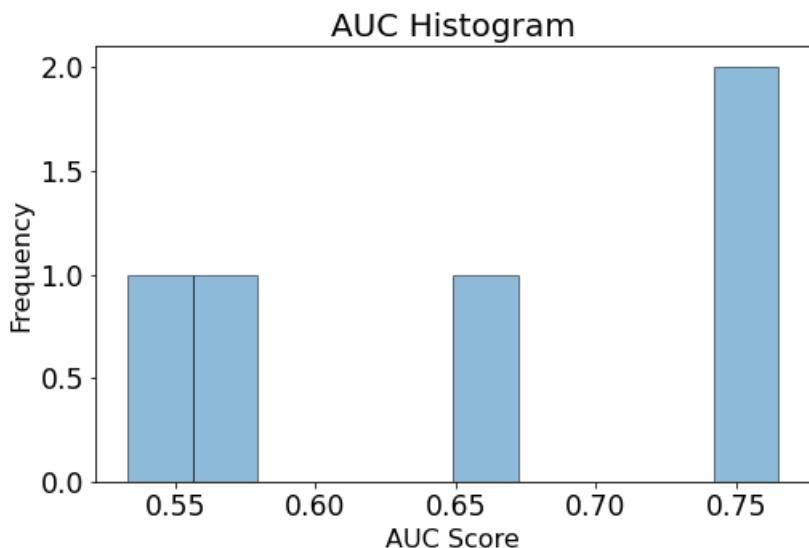
## Confusion Matrix



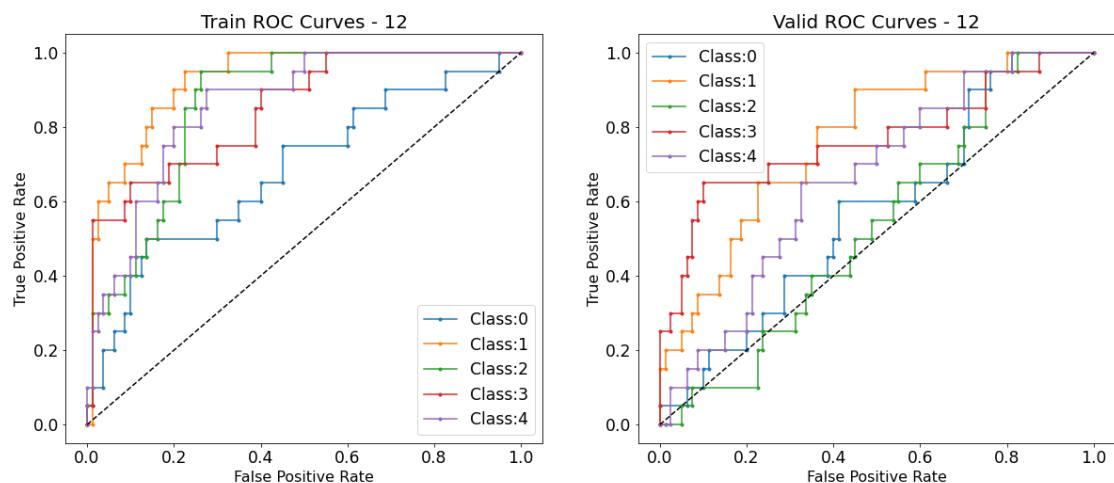
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 13

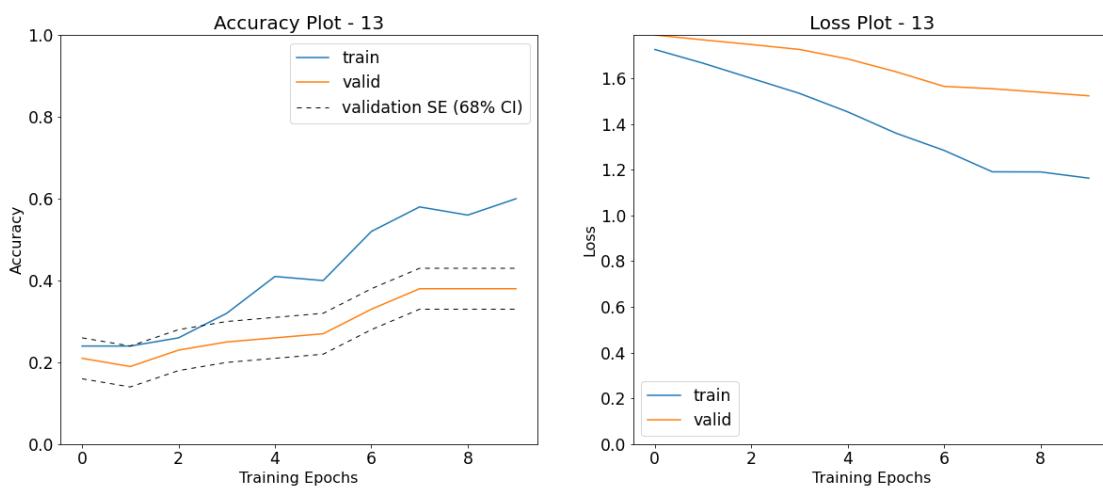
## Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	1m 5s
Best Train Accuracy	0.6
Best Valid Accuracy	0.38
<hr/>	
AUC	0.68
2*AUC-1	0.36
Standard Error	0.05

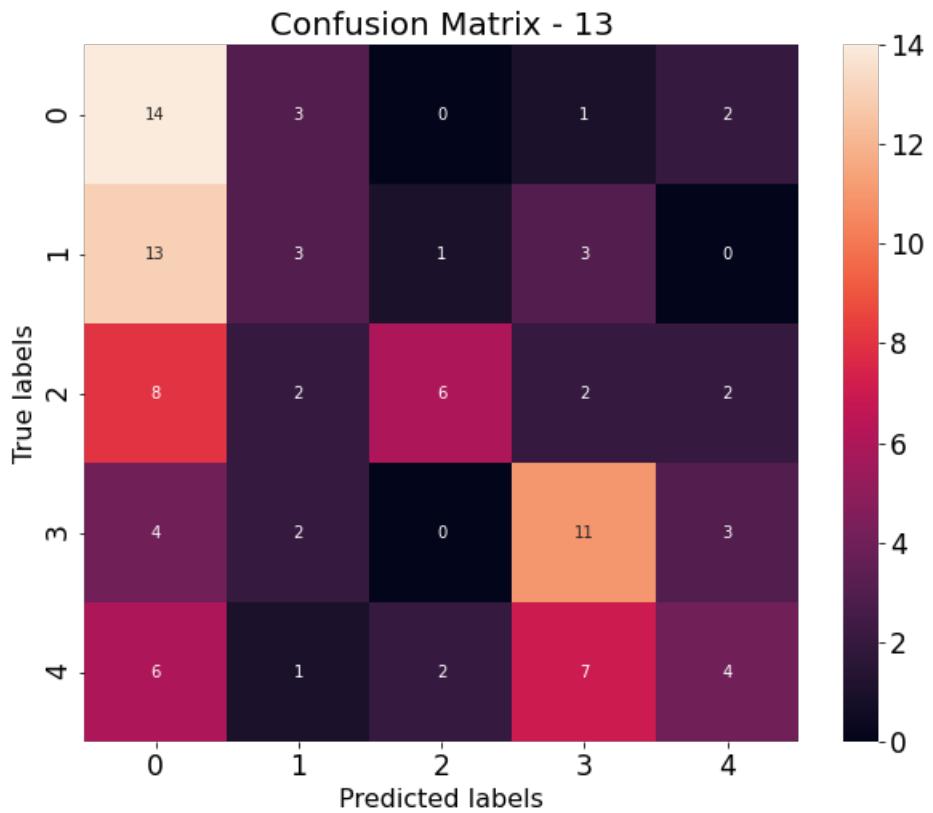
## Categories

Le Drap mortuaire ( <i>Oxythyrea funesta</i> )
Les Punaises prédatrices ternes ( <i>Physiphora</i> )
Les Syrphes aux faces aux murs enflammés
Nymphalidae
Pyrrhocoridae

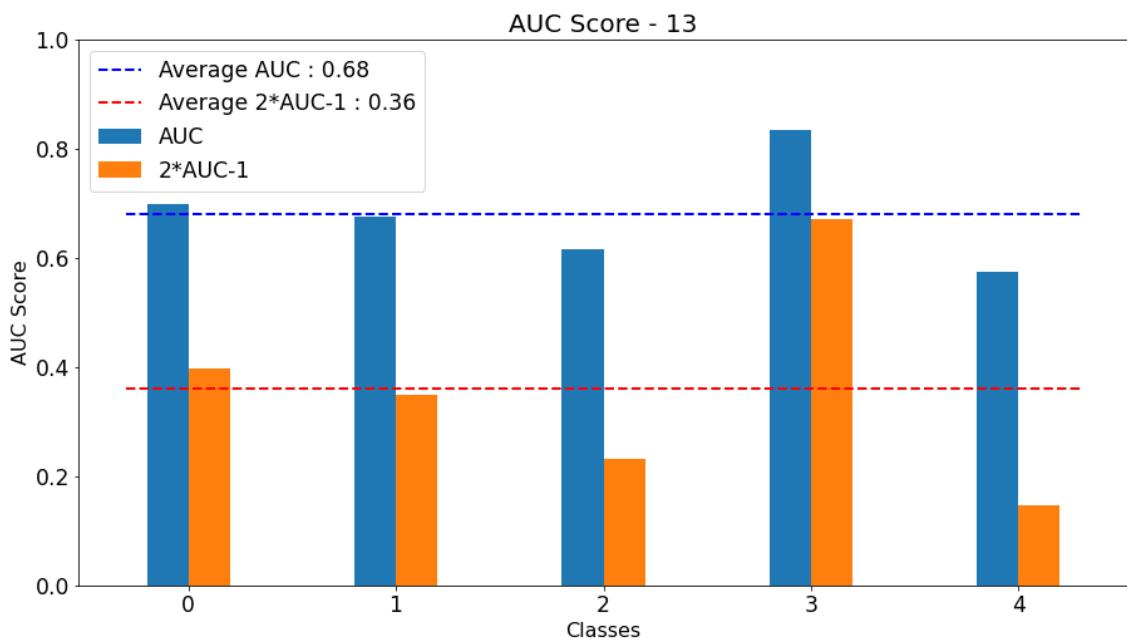
## Accuracy Loss Plot



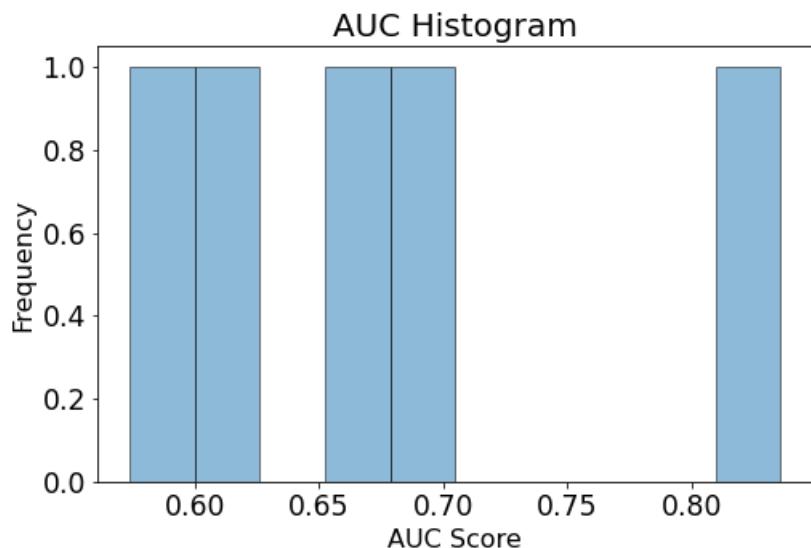
## Confusion Matrix



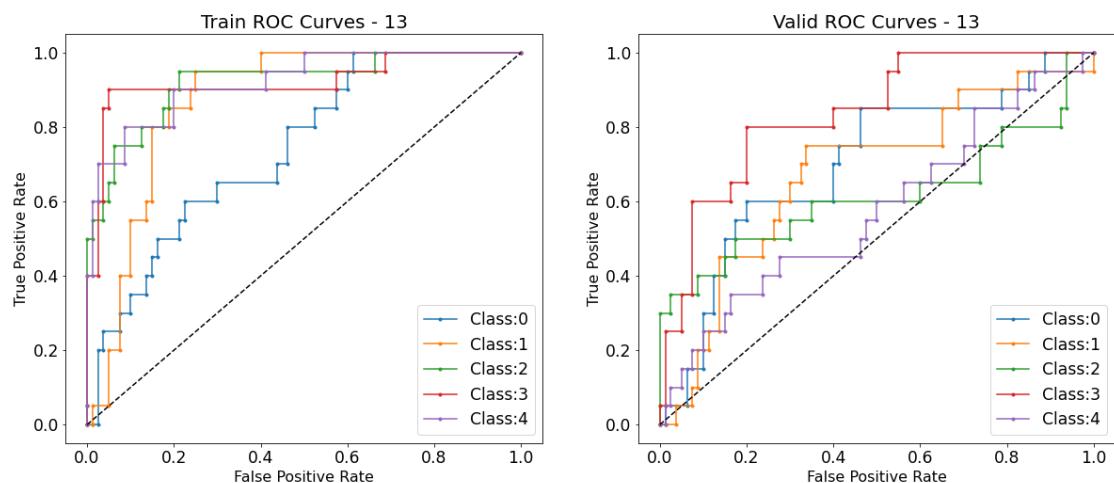
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 14

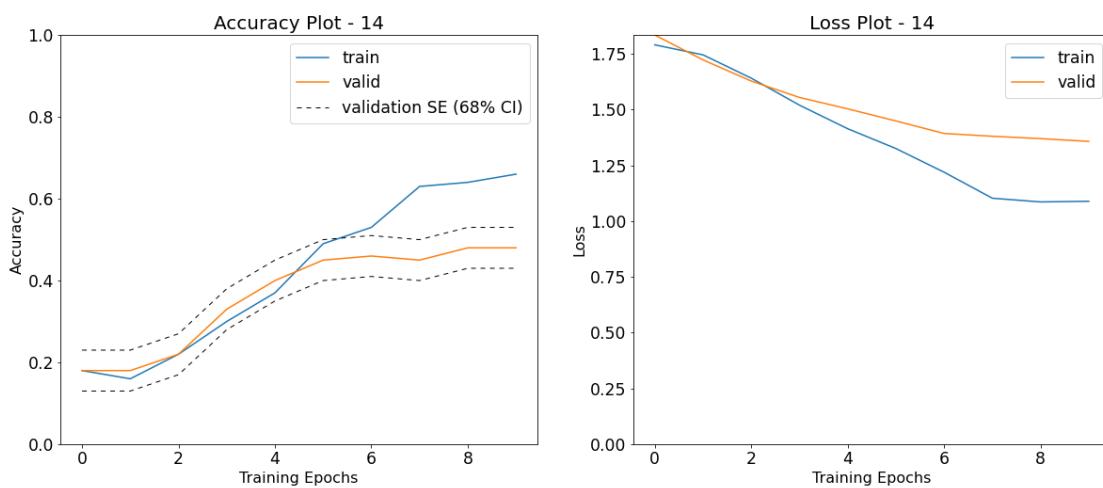
## Statistics

Total Images	200
Train Images	100
Valid Images	100

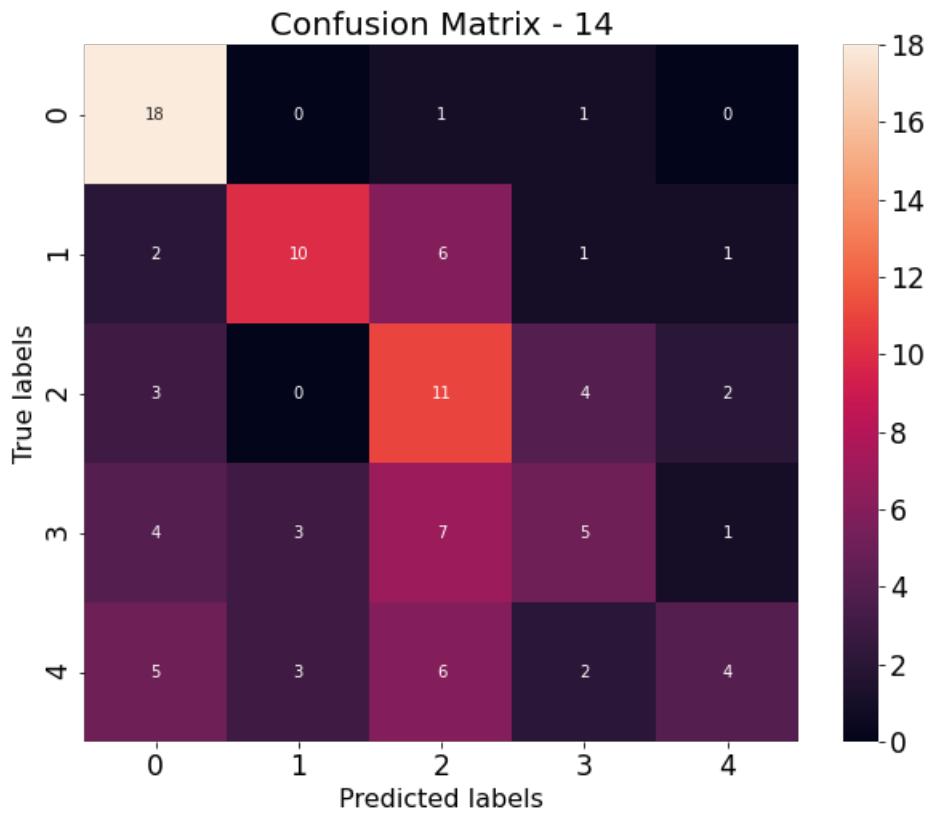
## Categories

Le GÃ©omÃ¨tre Ã  barreaux ( <i>Chiasmia clathrata</i> )
Les CÃ©toines sombres glabres ( <i>Protaetia</i> )
Les Rhingies ( <i>Rhingia</i> )
Les Stratiomes blanc et noir ( <i>Nemotelus</i> )
Tenebrionidae

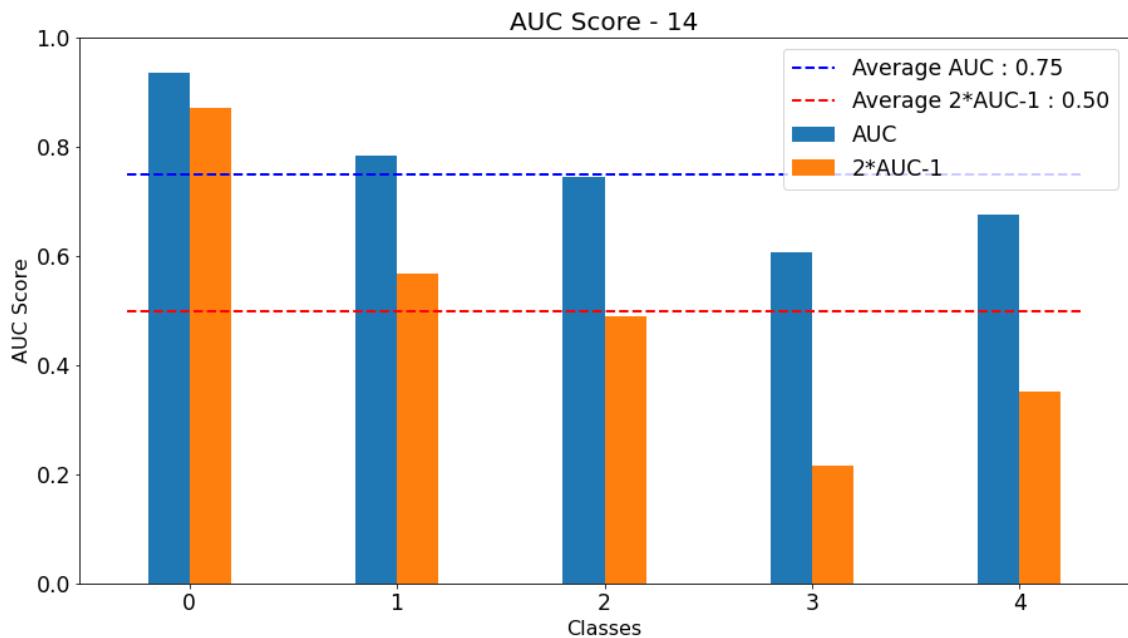
## Accuracy Loss Plot



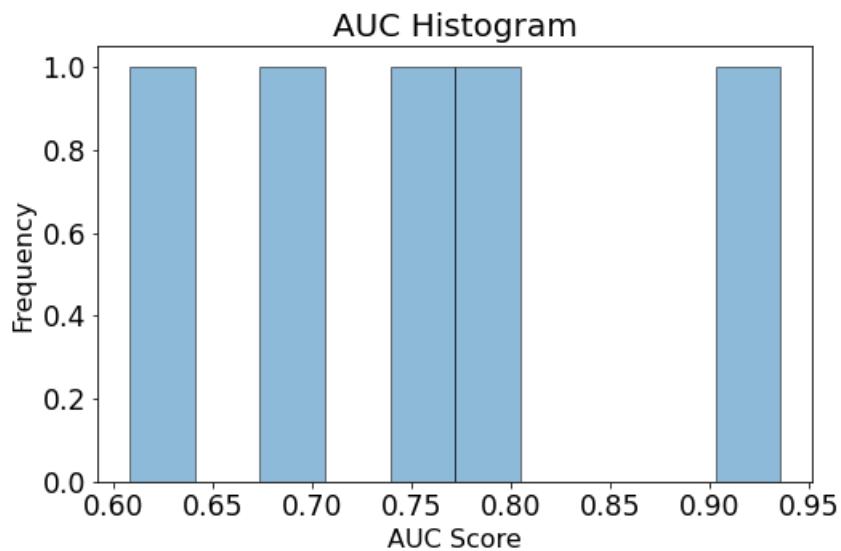
## Confusion Matrix



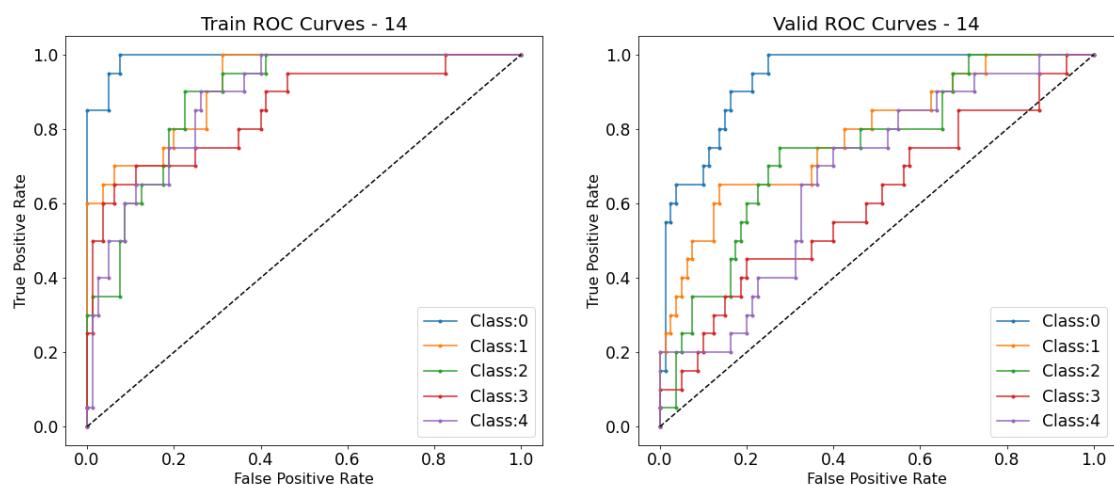
## AUC



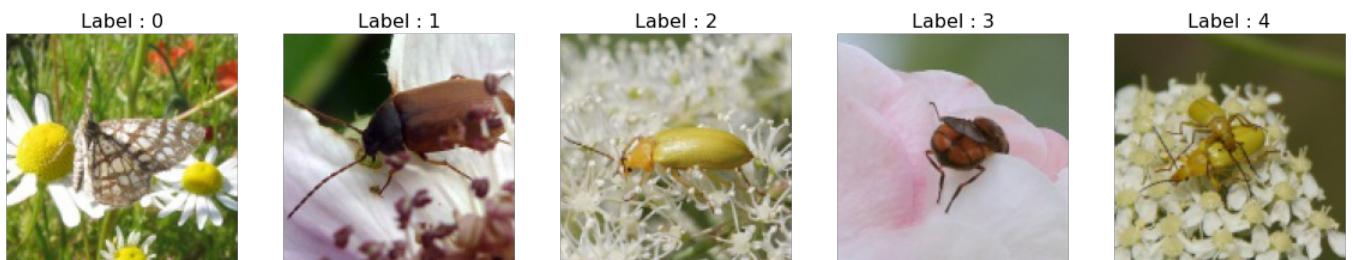
## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 15

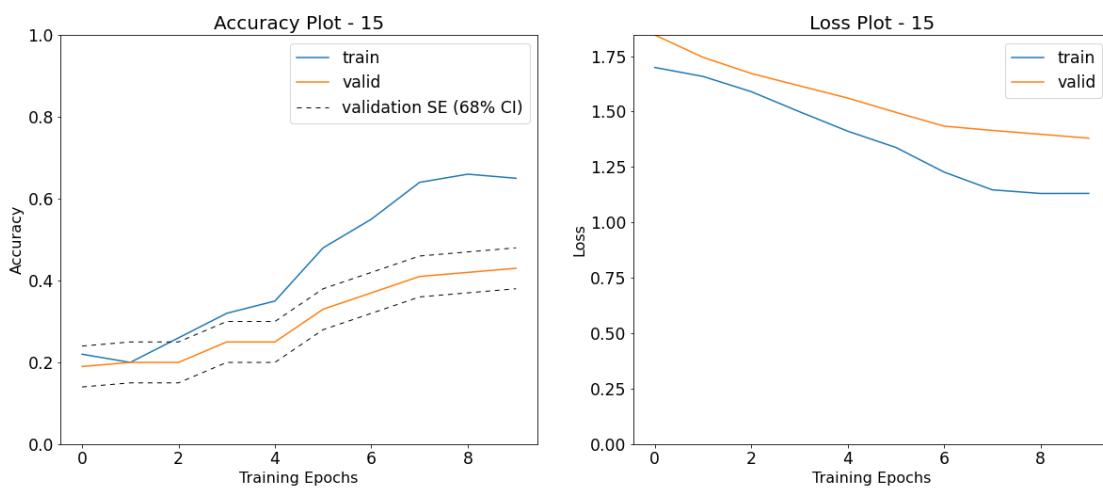
## Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	1m 4s
Best Train Accuracy	0.66
Best Valid Accuracy	0.43
<hr/>	
AUC	0.74
2*AUC-1	0.49
Standard Error	0.05

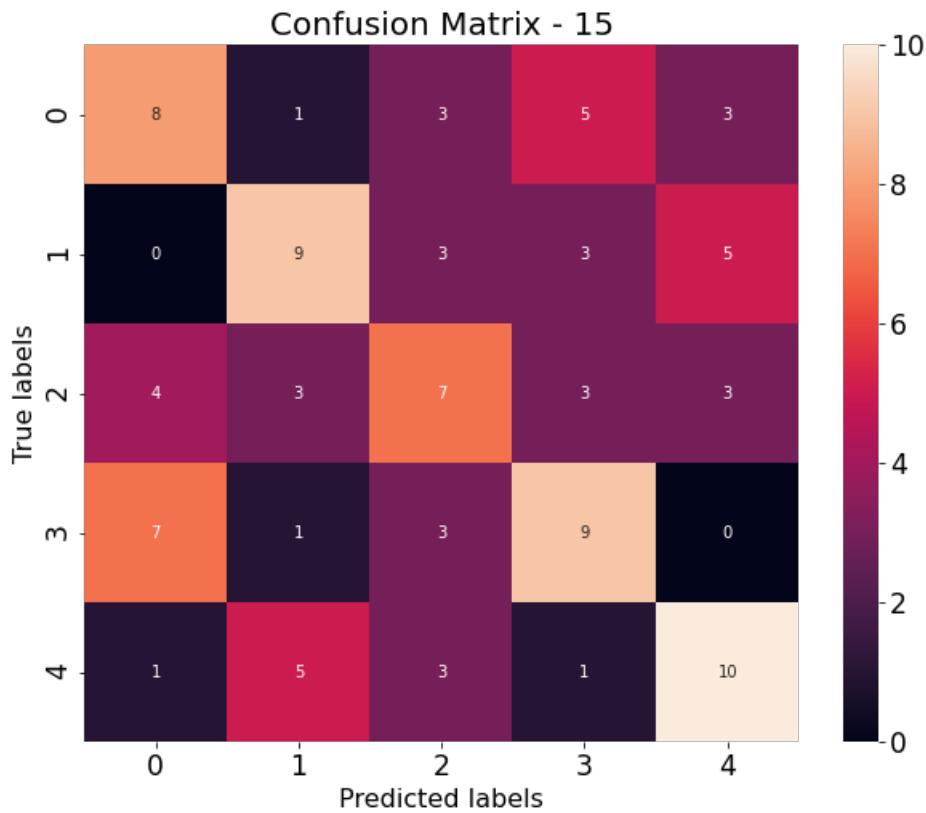
## Categories

Andrenidae
Le Moro-sphinx ( <i>Macroglossum stellatarum</i> )
Melittidae
Mycteridae
Papilionidae

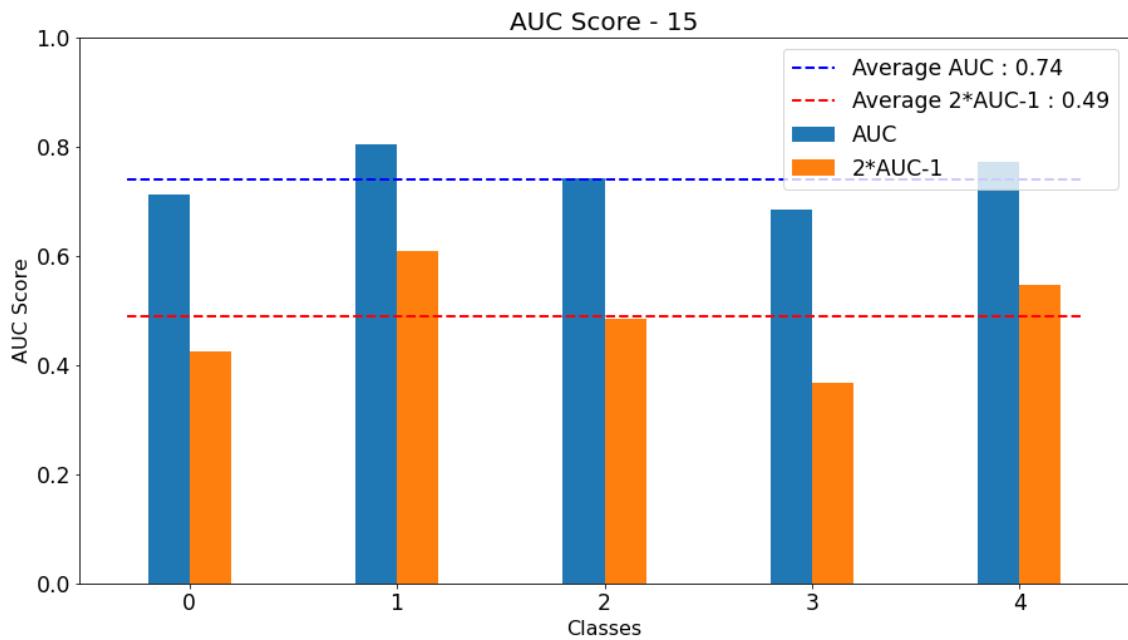
## Accuracy Loss Plot



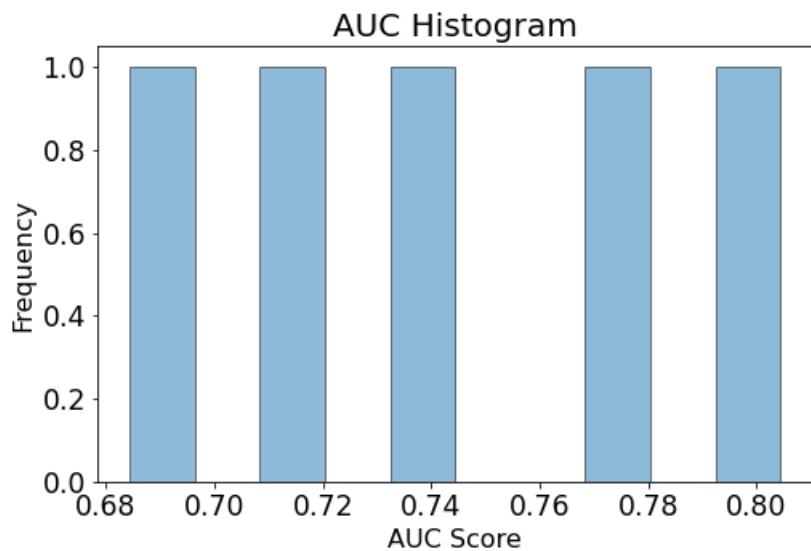
## Confusion Matrix



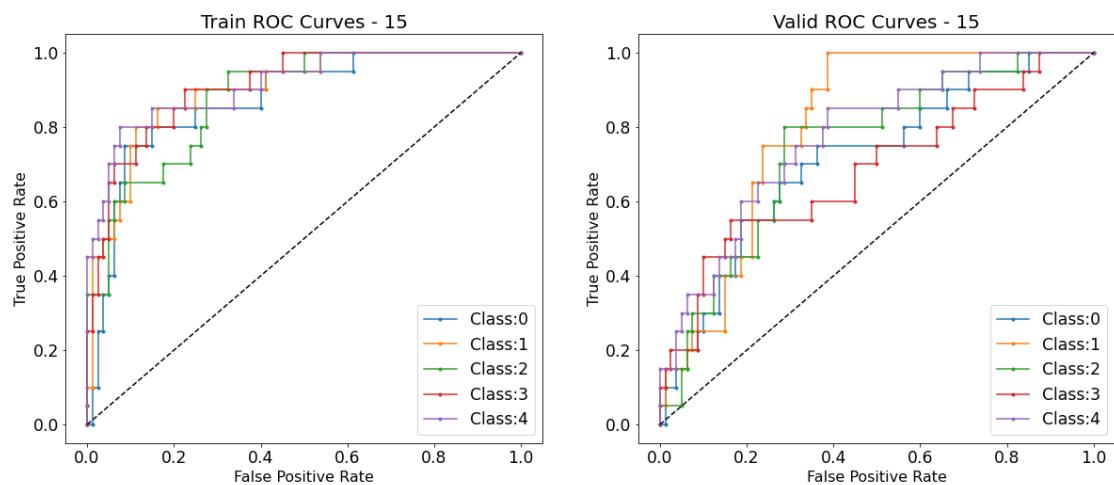
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 16

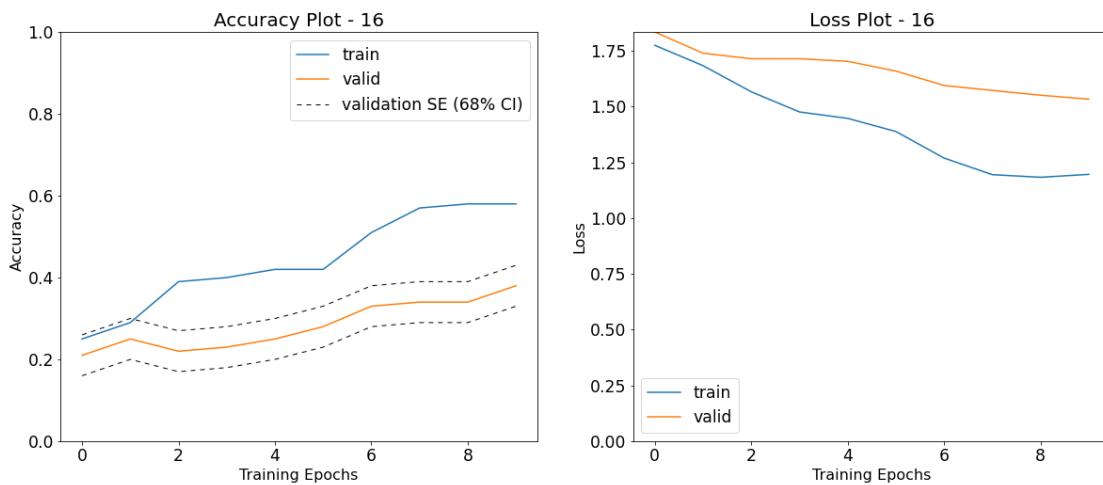
## Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	1m 4s
Best Train Accuracy	0.58
Best Valid Accuracy	0.38
<hr/>	
AUC	0.66
2*AUC-1	0.32
Standard Error	0.05

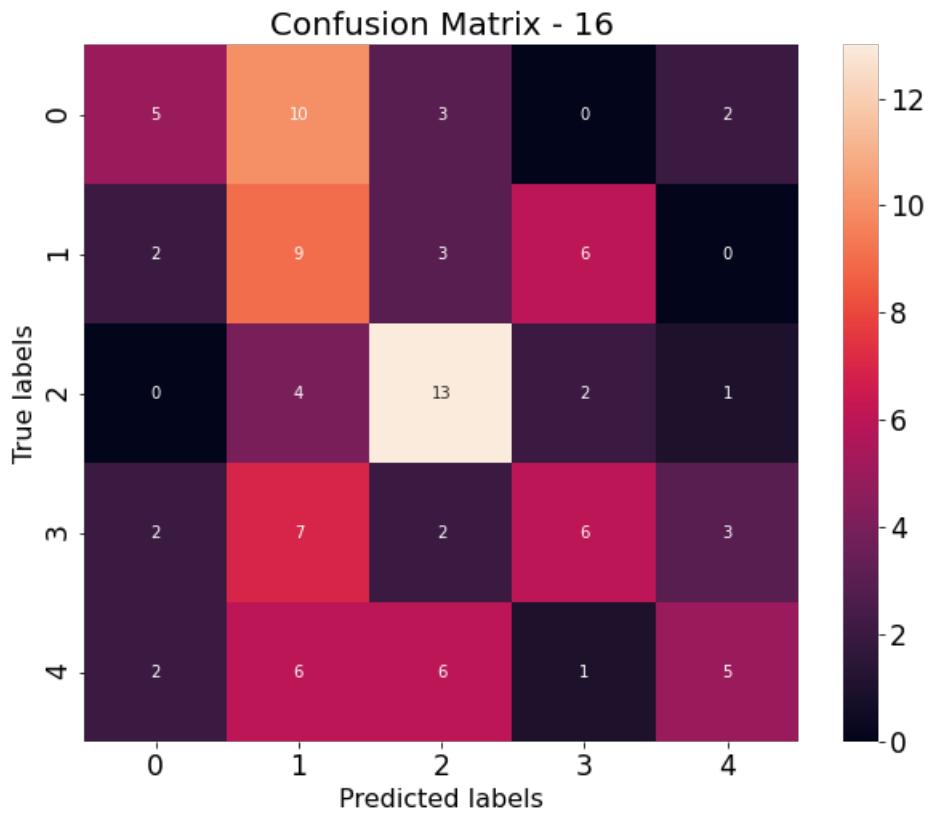
## Categories

Apidae
Les Chloropides jaunes à lèvres enflées (Meromyza)
Les Hennetons (Anisoplia, Phyllopertha)
Les Stratiomes verts (Odontomyia, Oplodontha)
Meloidae

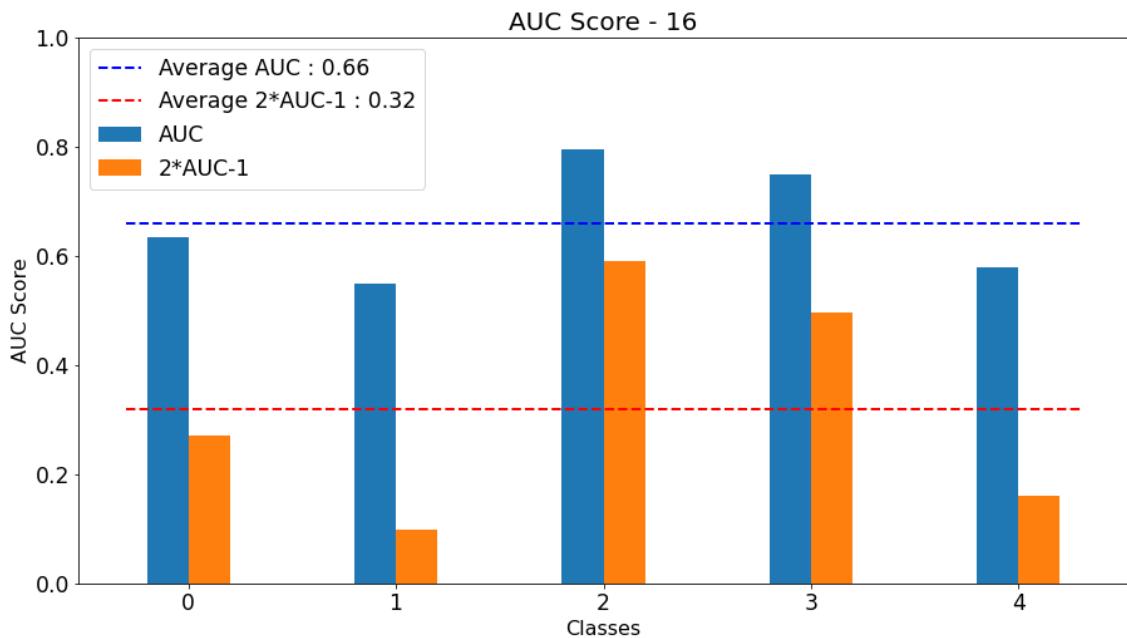
## Accuracy Loss Plot



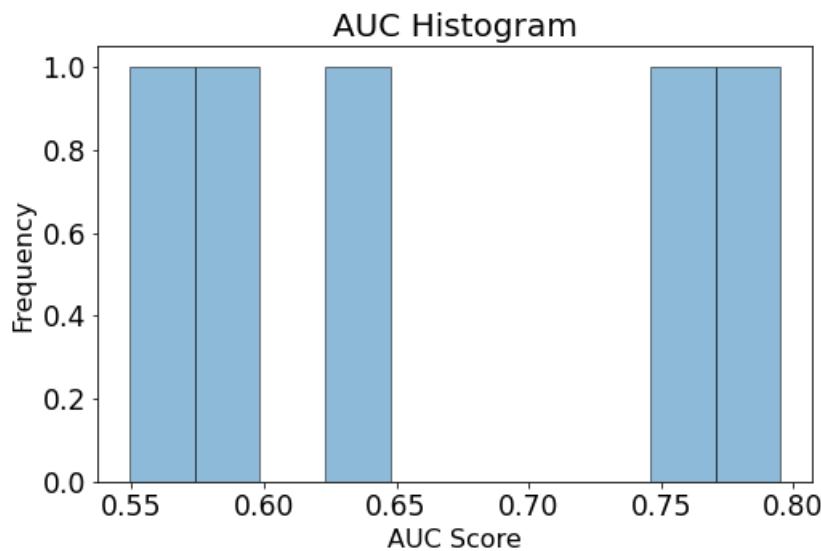
## Confusion Matrix



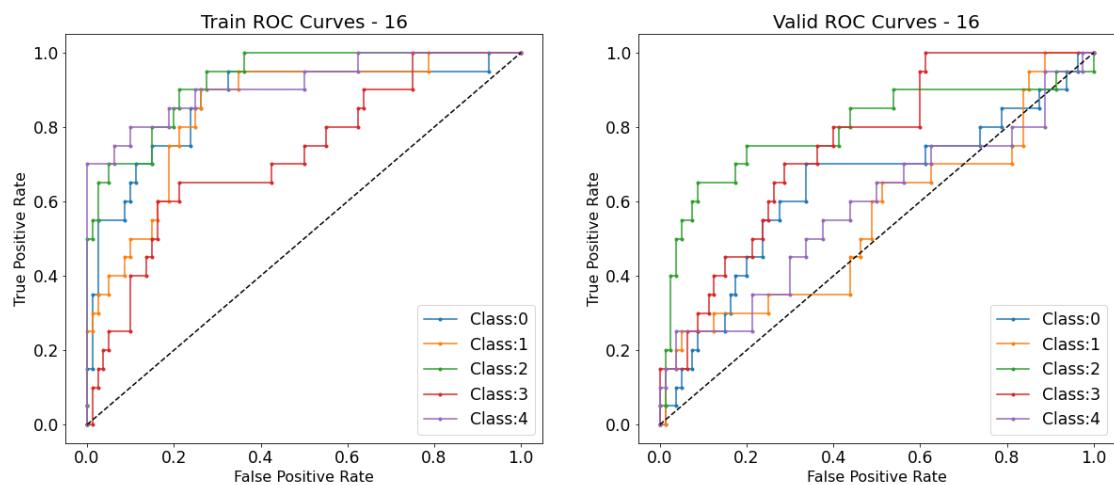
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 17

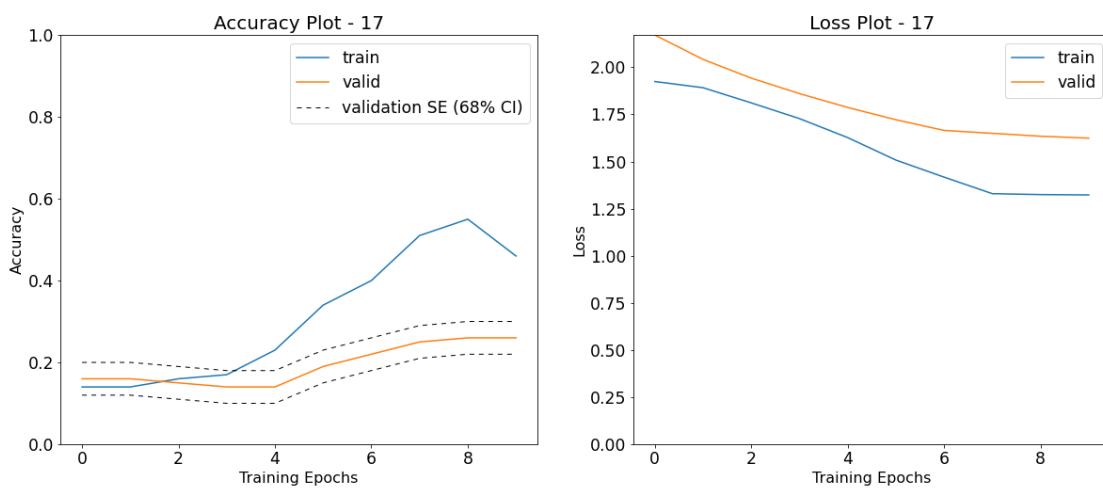
## Statistics

Total Images	200
Train Images	100
Valid Images	100

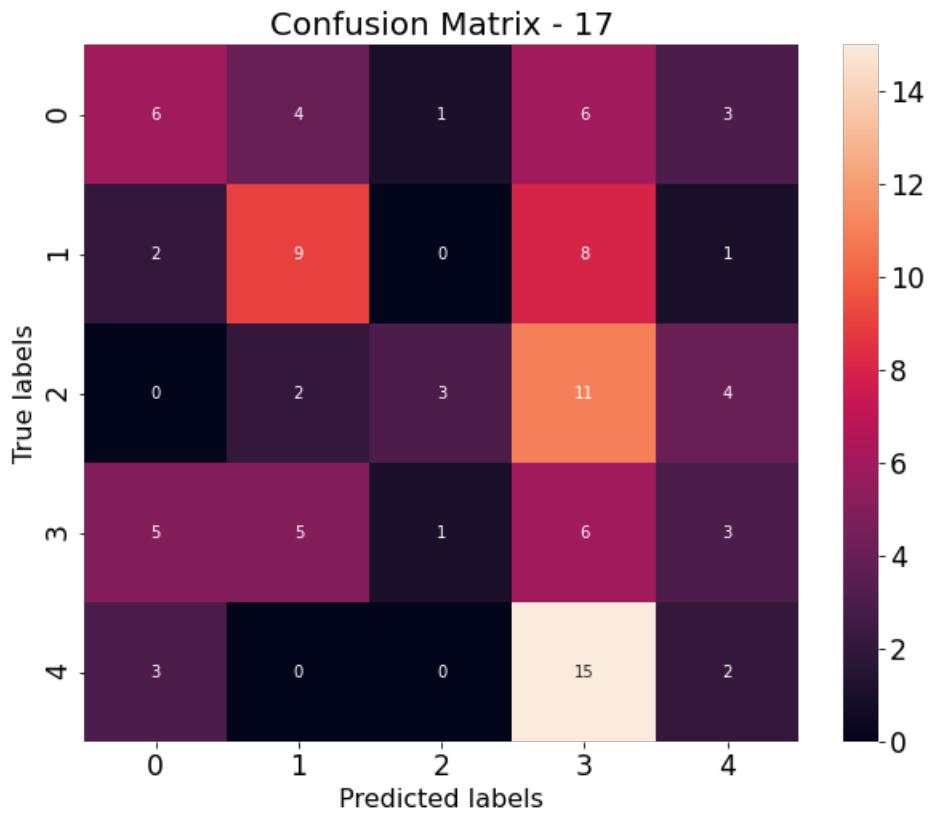
## Categories

Les Chrysotoxes (Chrysotoxum)
Les Turquoises (Adscita, Jordanita)
Pompilidae
Tenthredinidae
Tiphidae

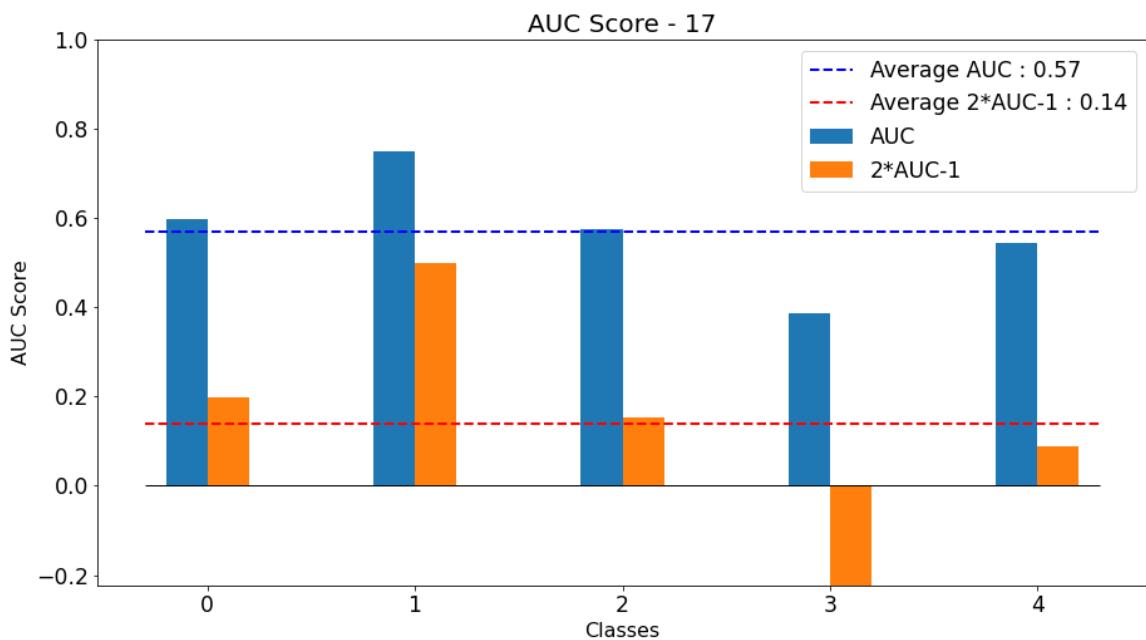
## Accuracy Loss Plot



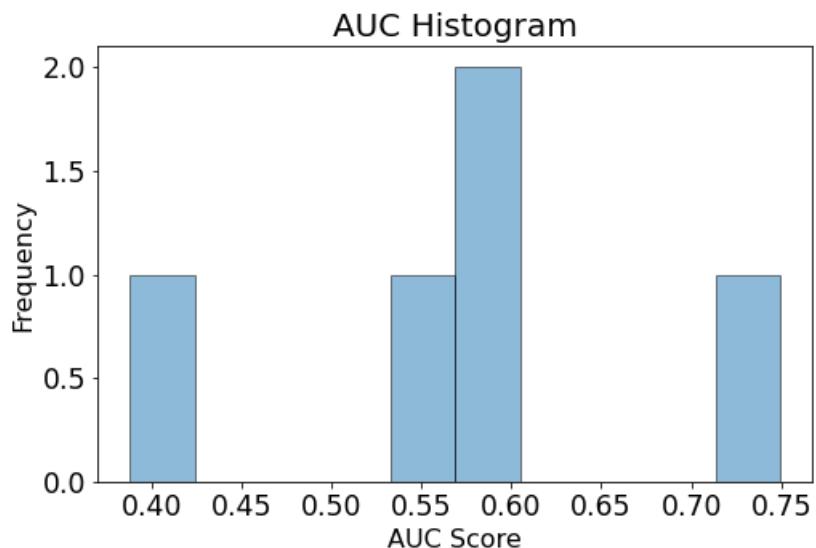
## Confusion Matrix



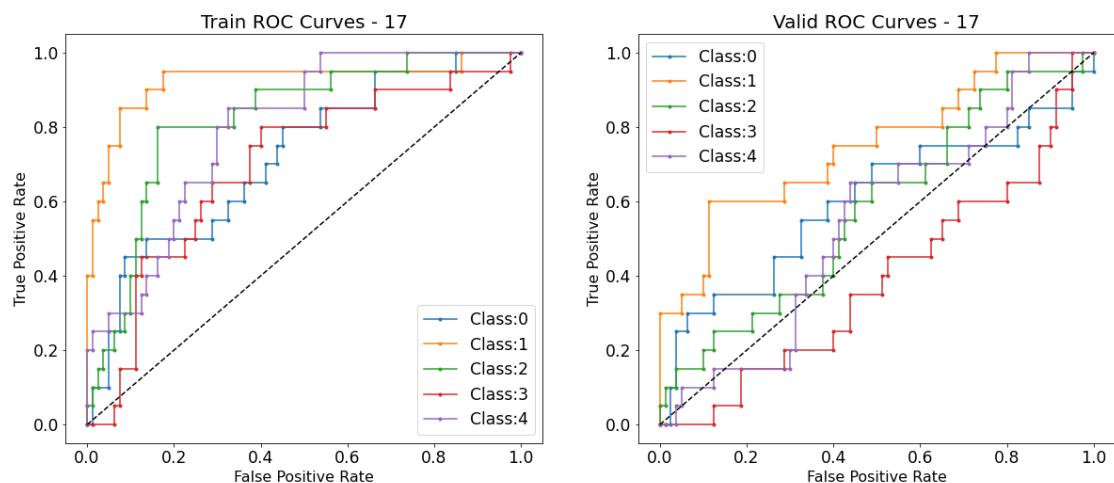
## AUC



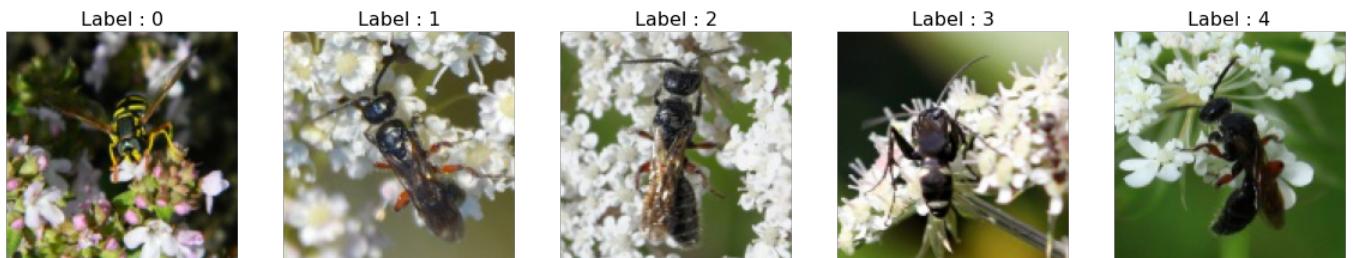
## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 18

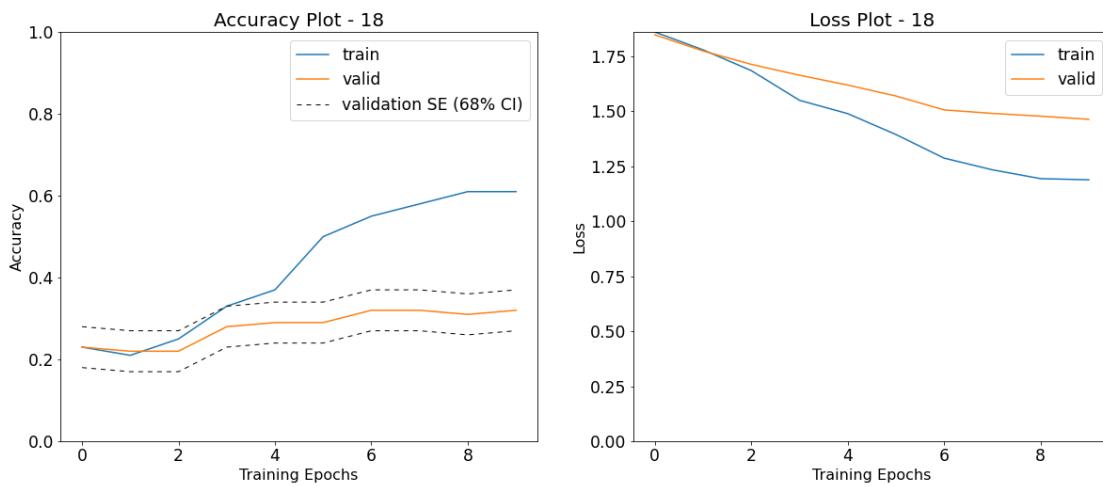
## Statistics

Total Images	200
Train Images	100
Valid Images	100

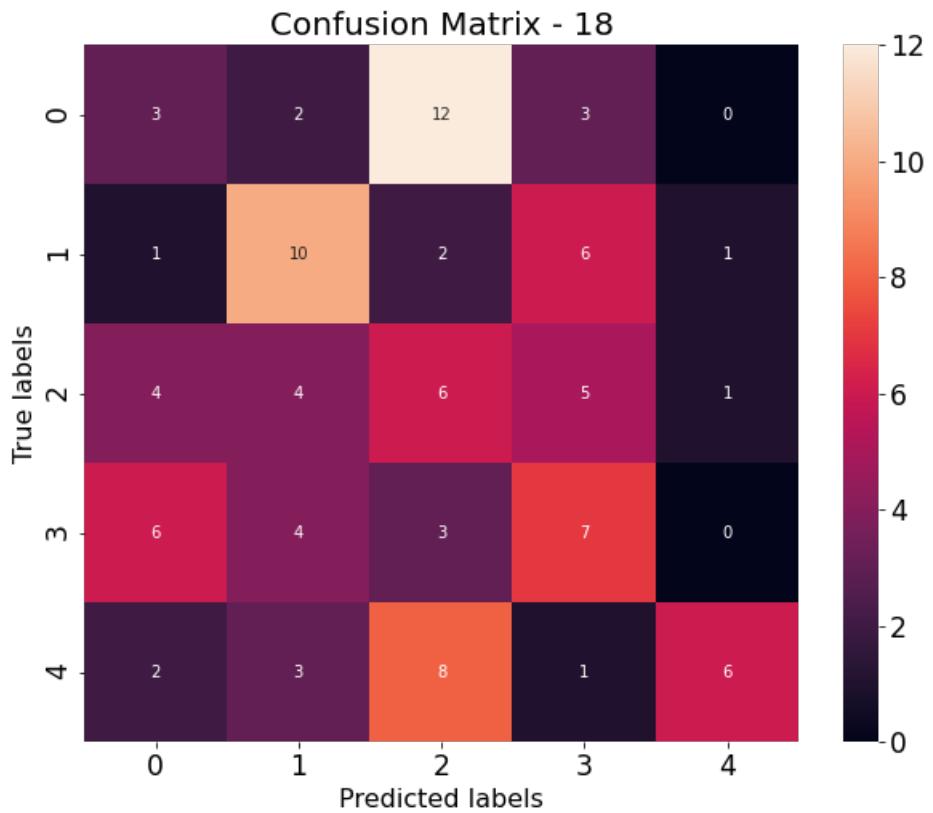
## Categories

Coreidae
La Volucelle enflée ( <i>Volucella inflata</i> )
Les Buprestes unis brillants ( <i>Anthaxia</i> et autres)
Les Syrphes aux antennes à bout blanc ( <i>Callicera</i> )
Nitidulidae

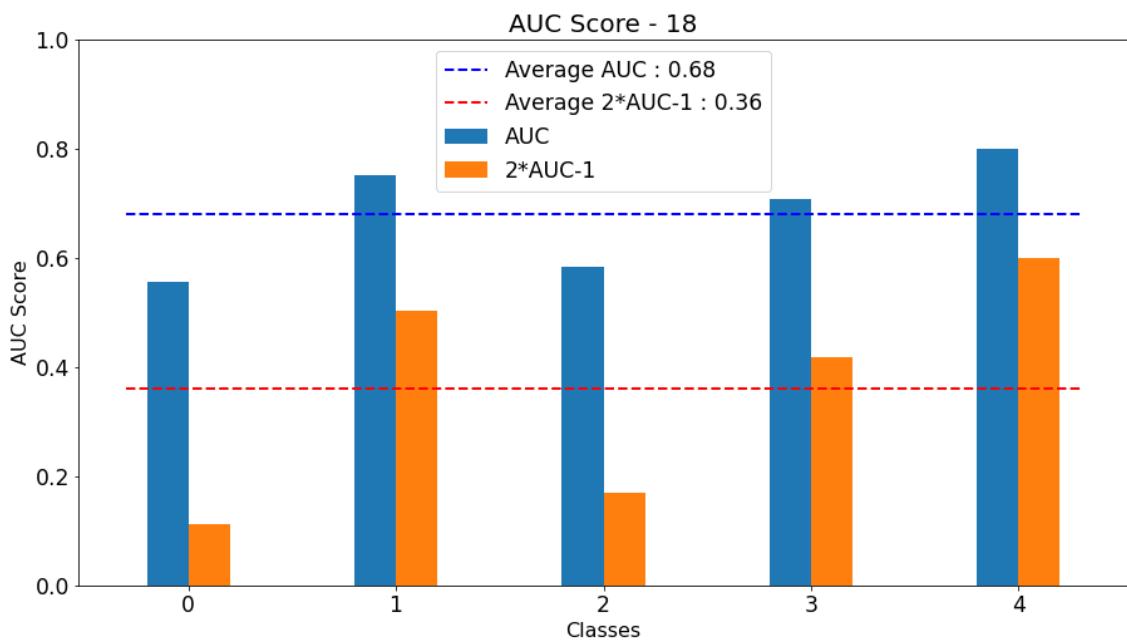
## Accuracy Loss Plot



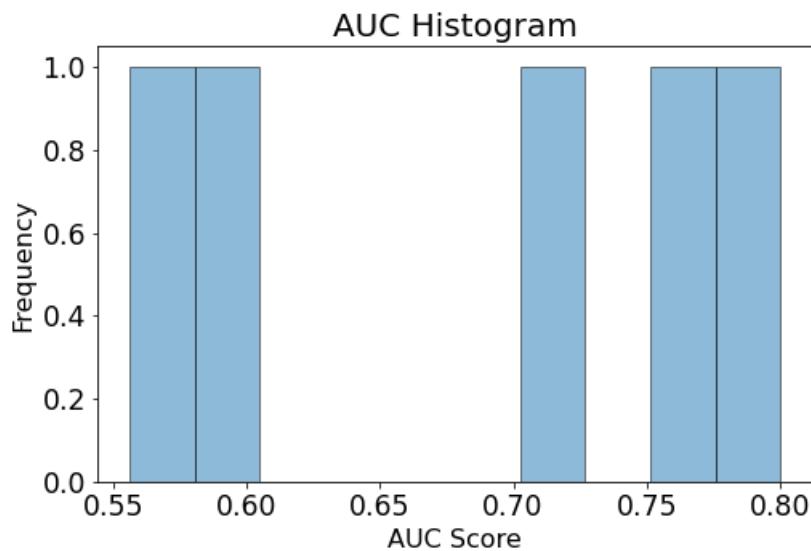
## Confusion Matrix



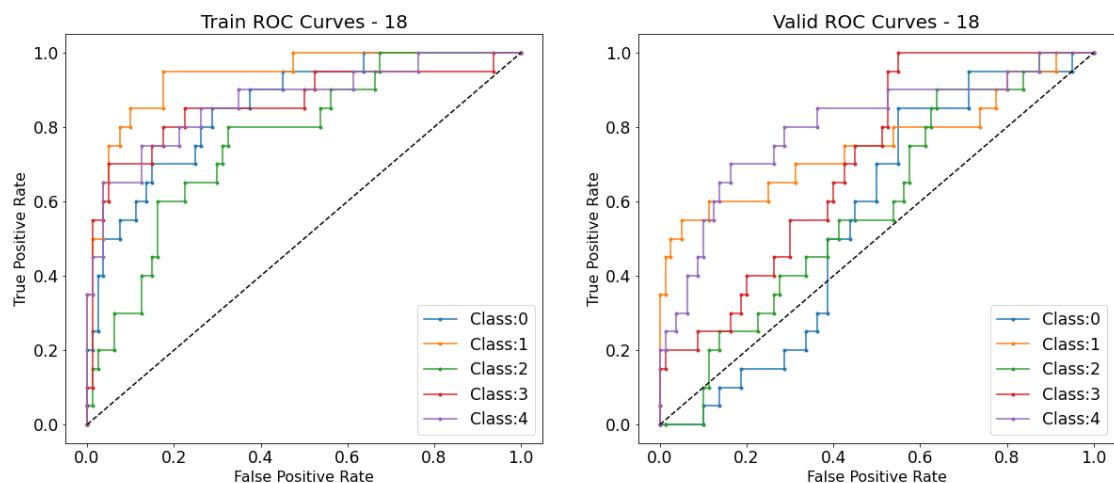
## AUC



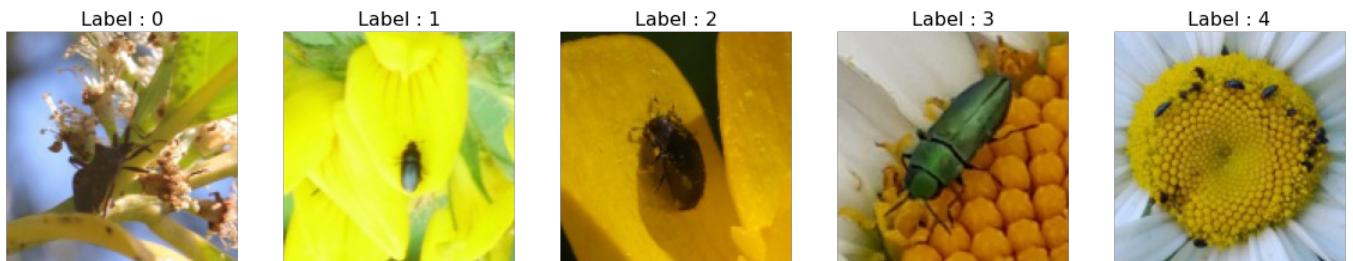
## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 19

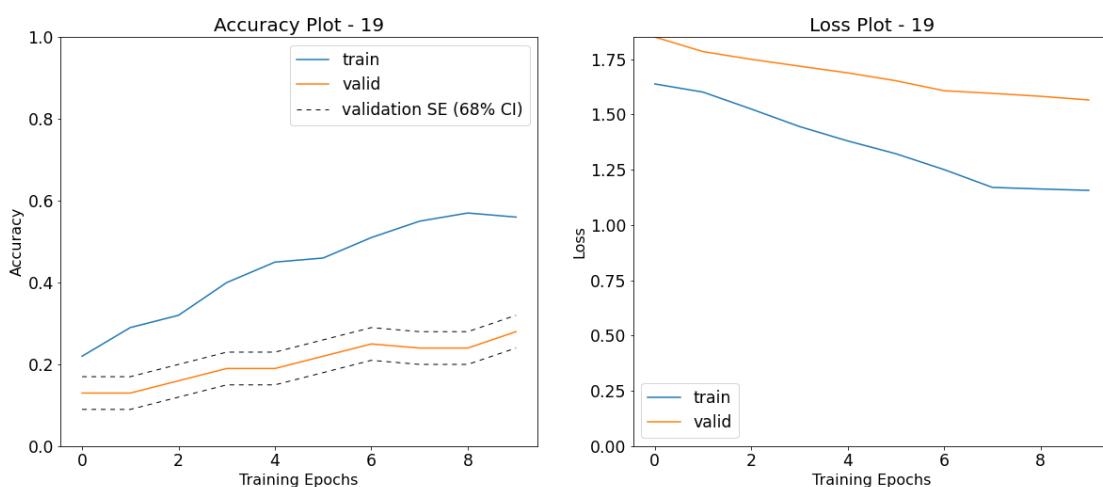
## Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	1m 2s
Best Train Accuracy	0.57
Best Valid Accuracy	0.28
<hr/>	
AUC	0.62
2*AUC-1	0.24
Standard Error	0.04

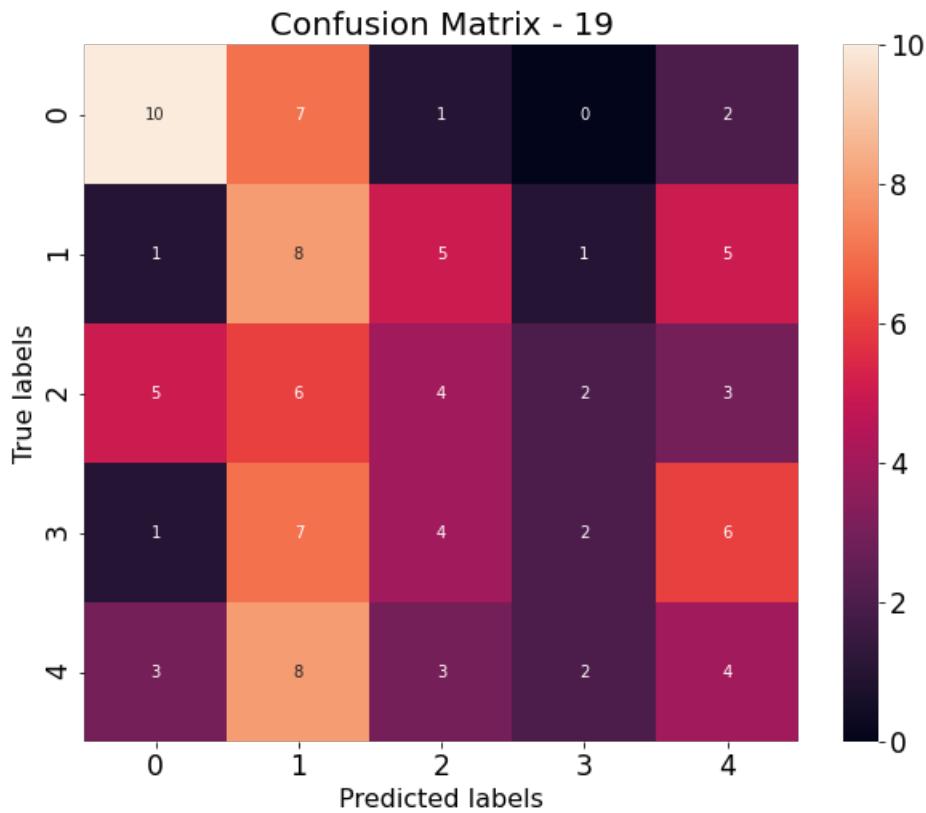
## Categories

Cimbicidae
La Volucelle transparente ( <i>Volucella pellucens</i> )
Les Eristales (autres) ( <i>Eristalis</i> )
Les GÃ©omÃ©tres (Geometridae)
Noctuidae

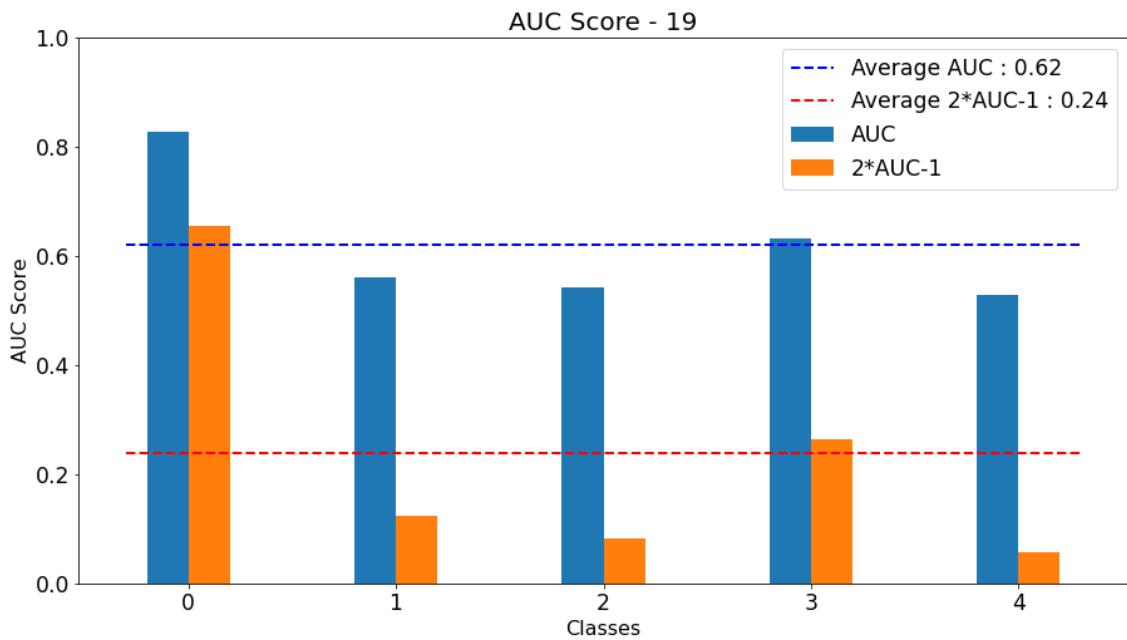
## Accuracy Loss Plot



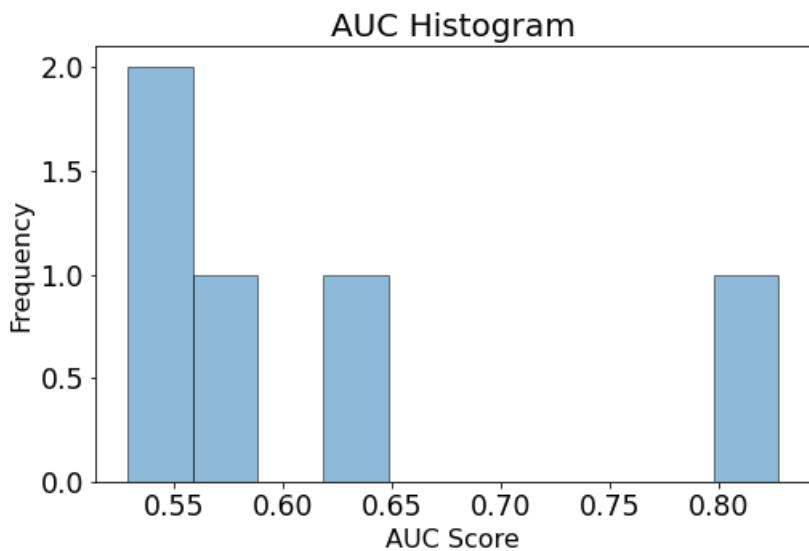
## Confusion Matrix



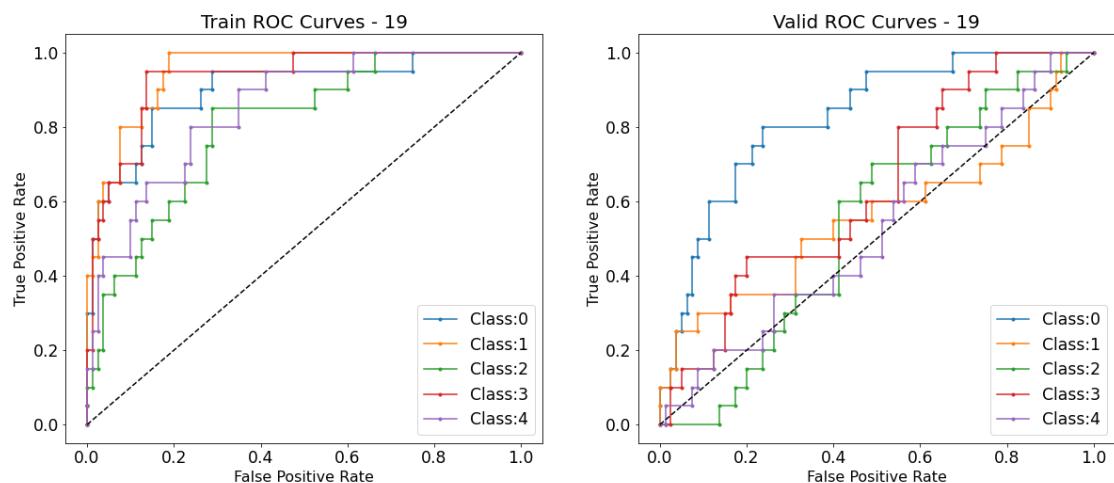
## AUC



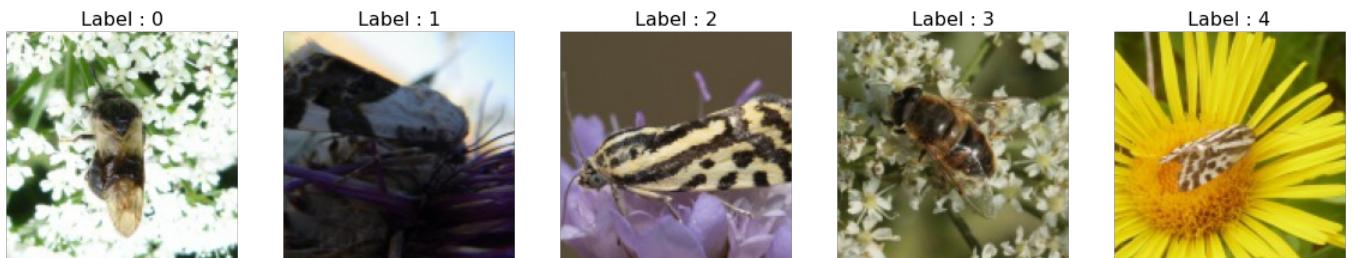
## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 20

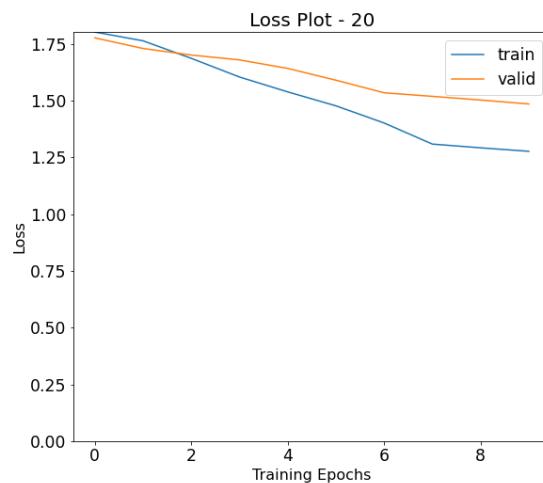
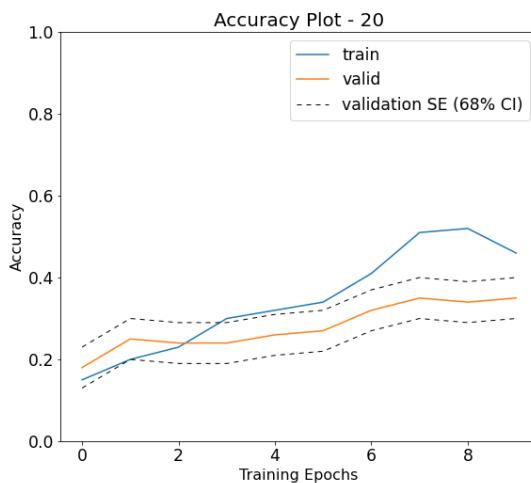
## Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	1m 2s
Best Train Accuracy	0.52
Best Valid Accuracy	0.35
AUC	0.7
2*AUC-1	0.39
Standard Error	0.05

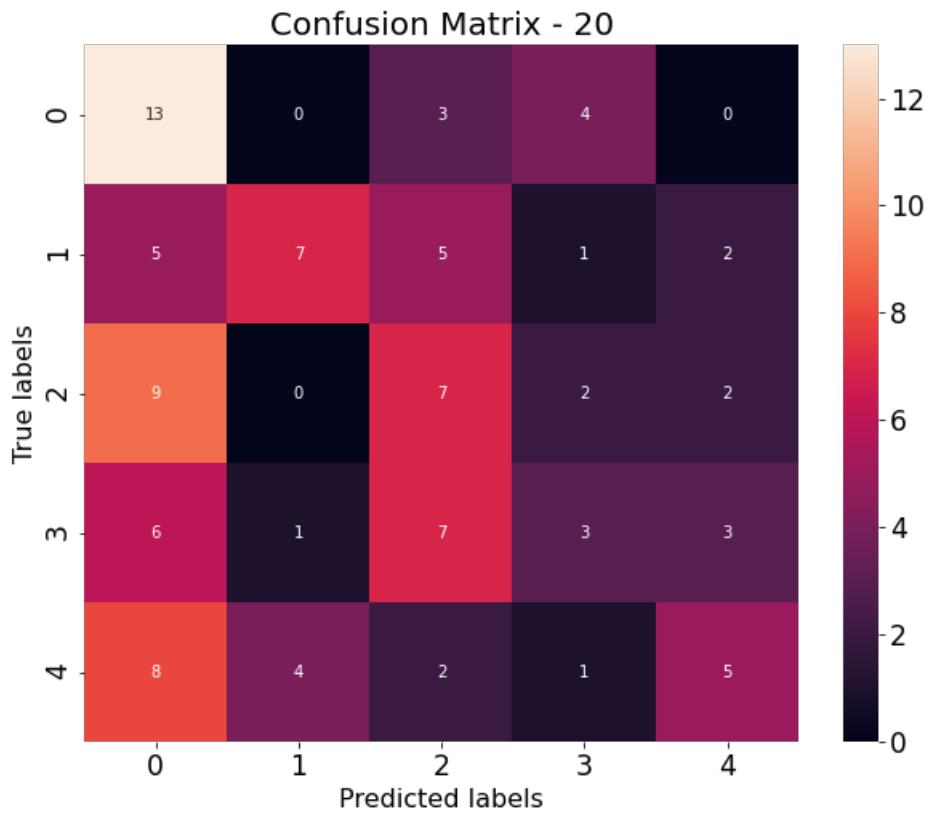
## Categories

Cydnidae
La Milâ©sie frelon ( <i>Milesia crabroniformis</i> )
Les Eristales aux yeux ponctuâ©s ( <i>Eristalinus</i> )
Scoliidae
Vespidae

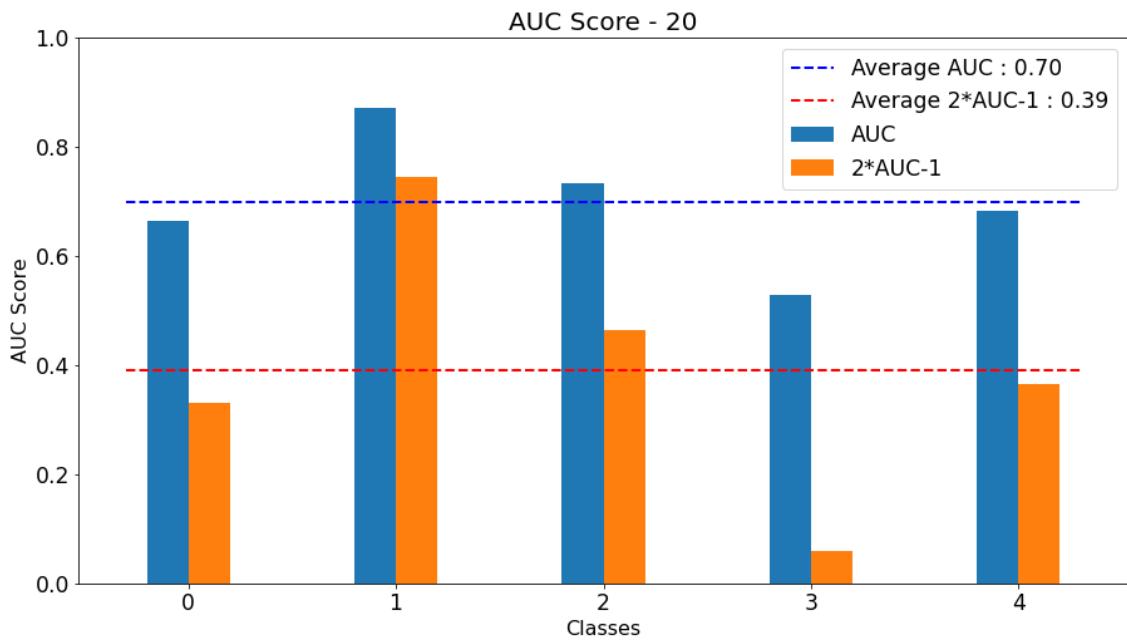
## Accuracy Loss Plot



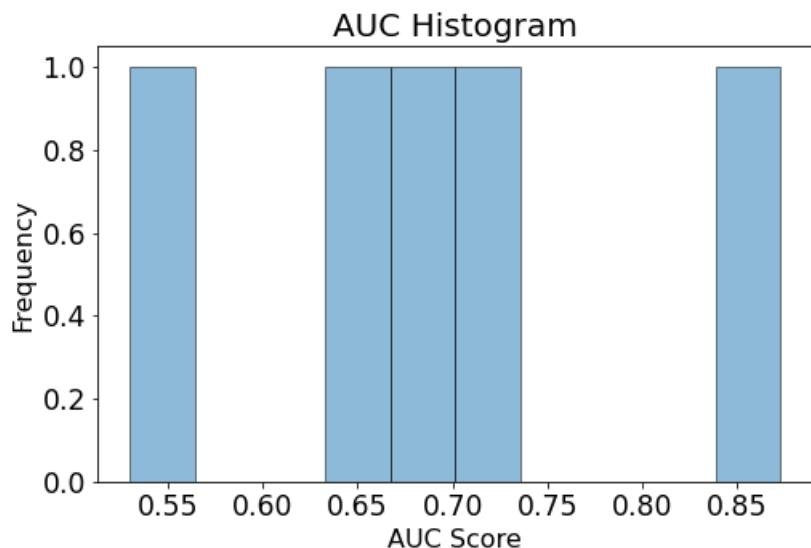
## Confusion Matrix



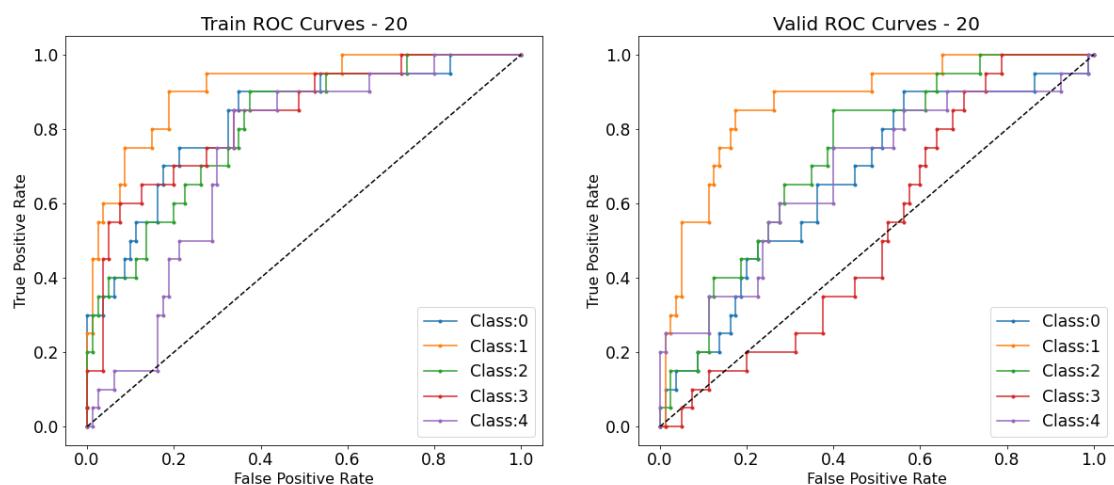
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 21

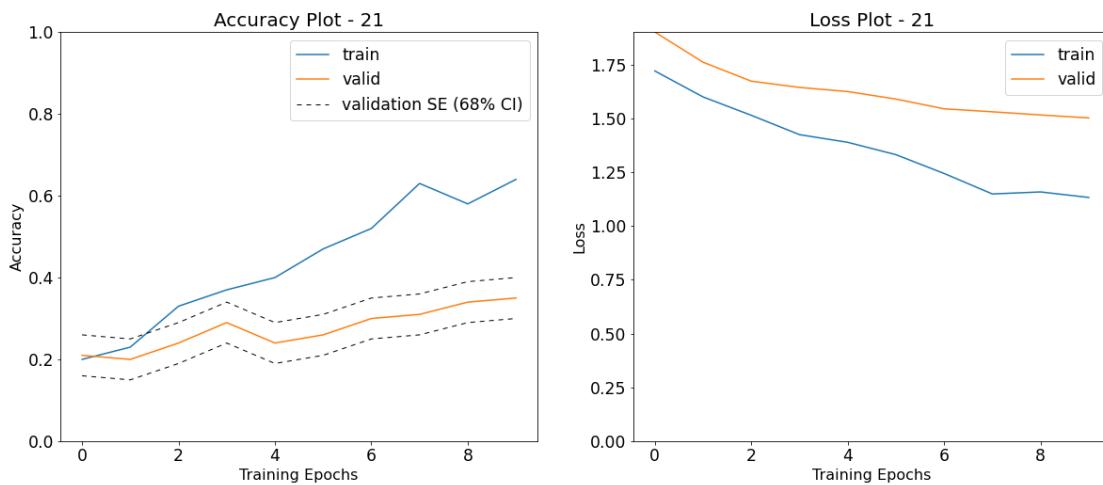
## Statistics

Total Images	200
Train Images	100
Valid Images	100

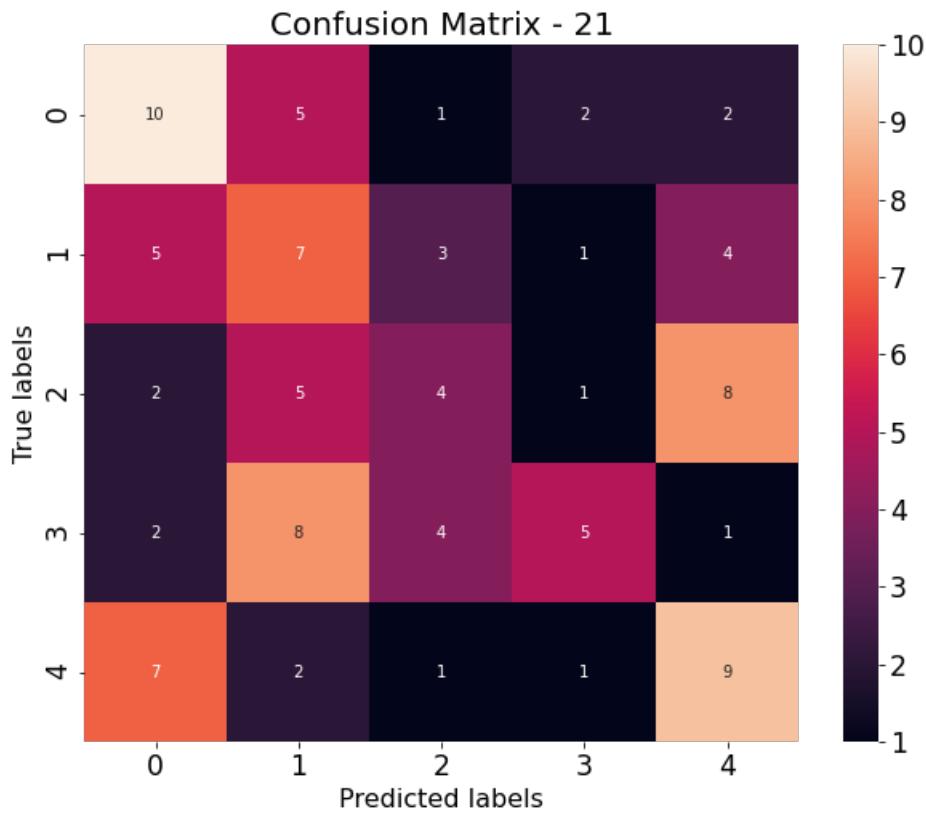
## Categories

Dasytidae
Les Charançons (autres) (Larinus et autres)
Les Epeires et autres Araneidae
Les Epeires à dessin de feuille de Châgne (Aculepeira, Neoscona)
Lygaeidae

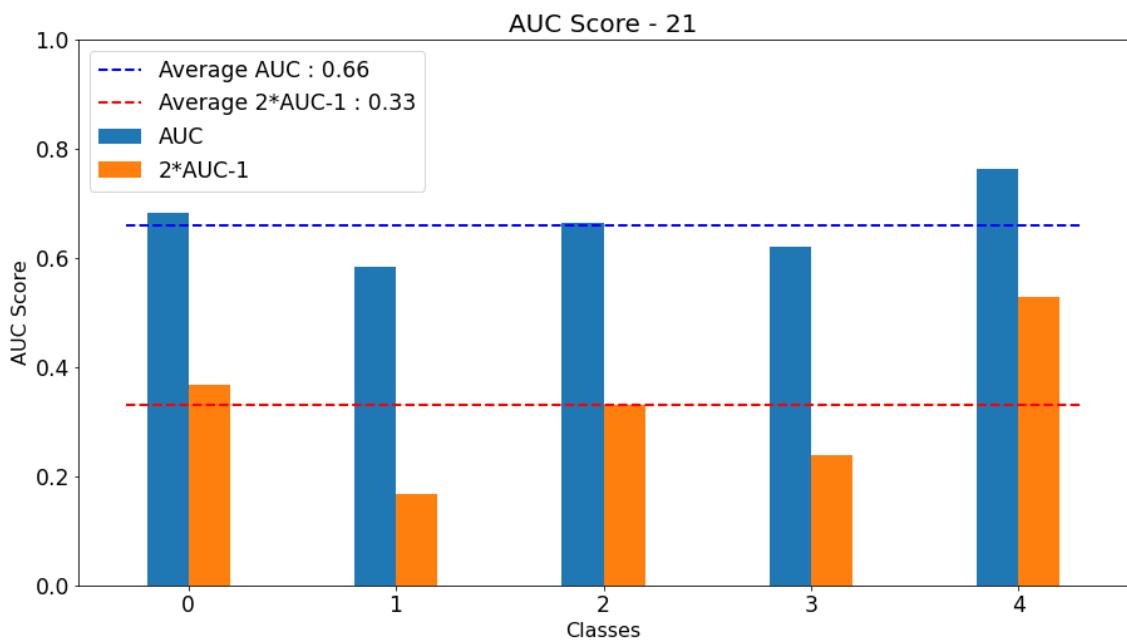
## Accuracy Loss Plot



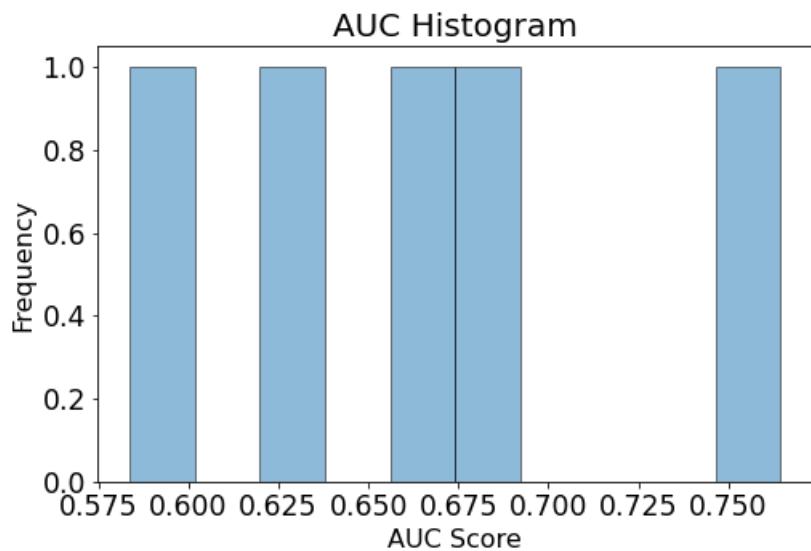
## Confusion Matrix



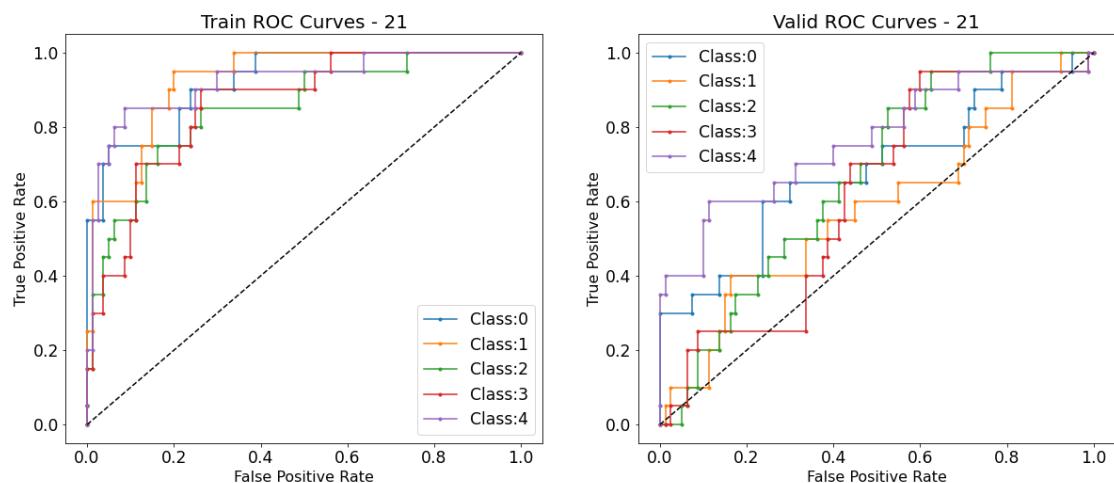
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images



# Super-Category 22

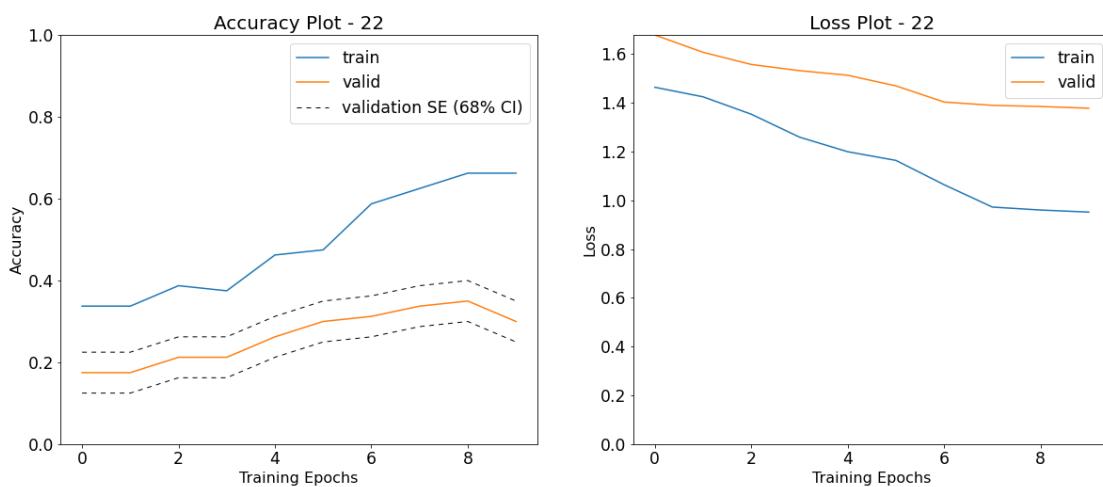
## Statistics

Total Images	160
Train Images	80
Valid Images	80
<hr/>	
Training Time	1m 1s
Best Train Accuracy	0.66
Best Valid Accuracy	0.35
<hr/>	
AUC	0.62
2*AUC-1	0.23
Standard Error	0.05

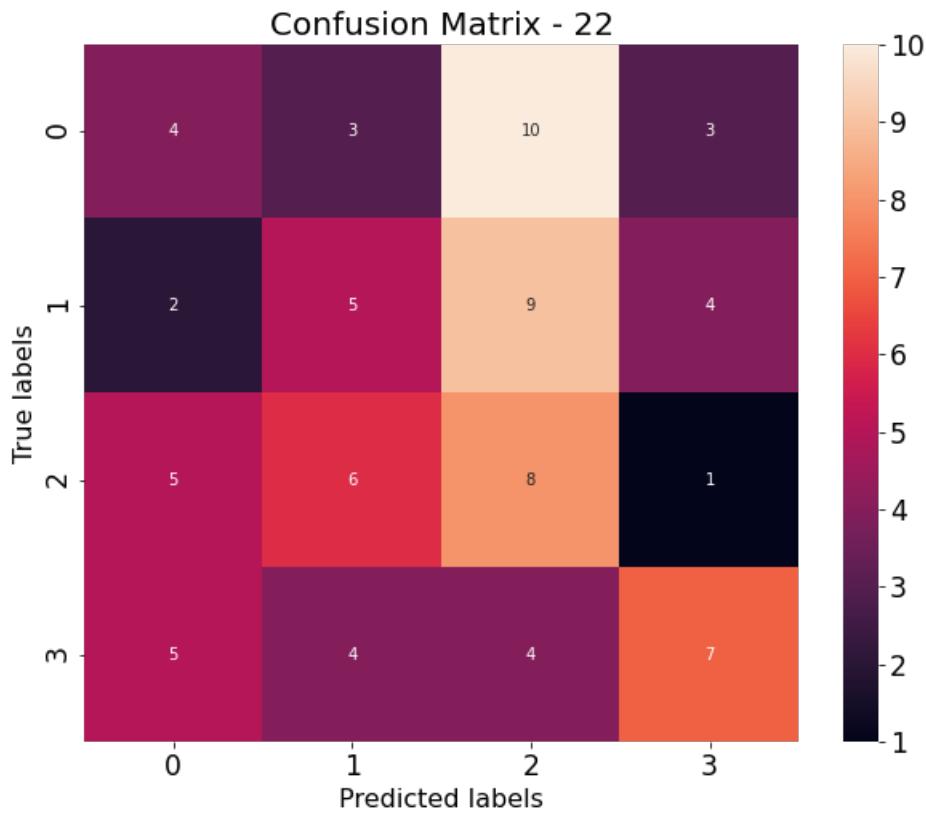
## Categories

Crabronidae
L'Eristale taeniops ( <i>Eristalinus taeniops</i> )
Les Syrphes à abdomen fin ( <i>Meliscaeva et autres</i> )
Les Taons sombres (plusieurs Tabanidae)

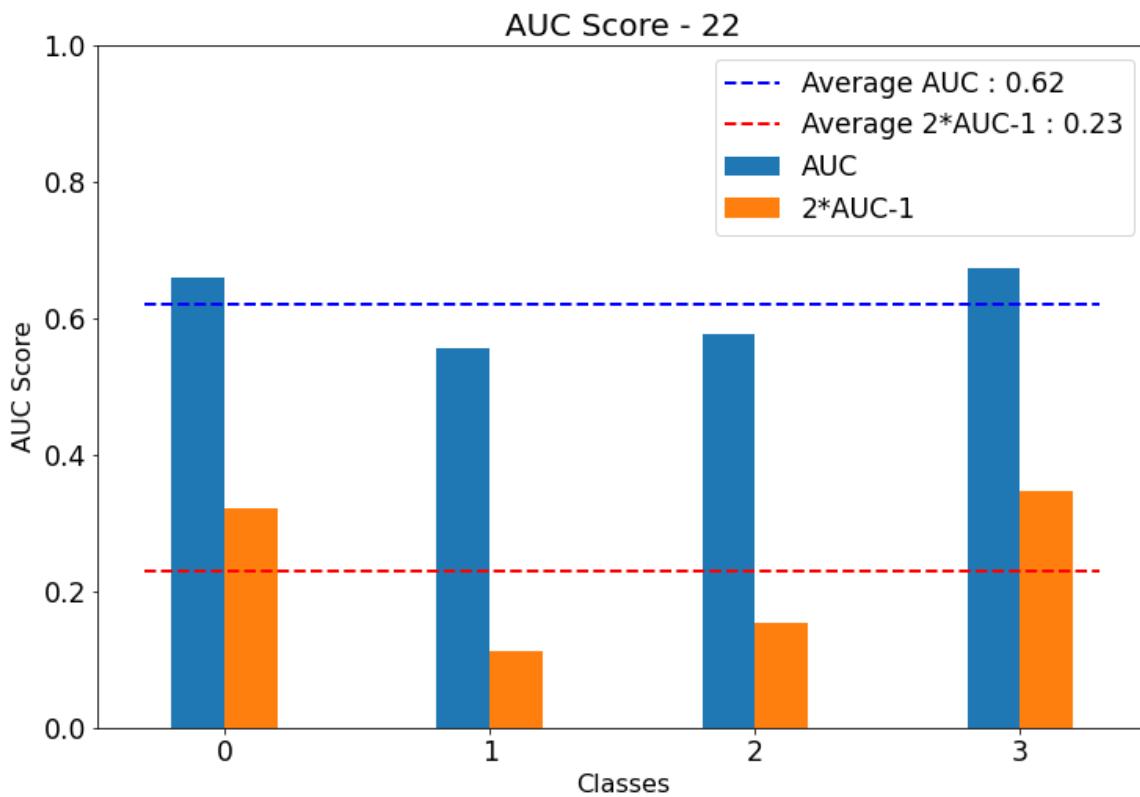
## Accuracy Loss Plot



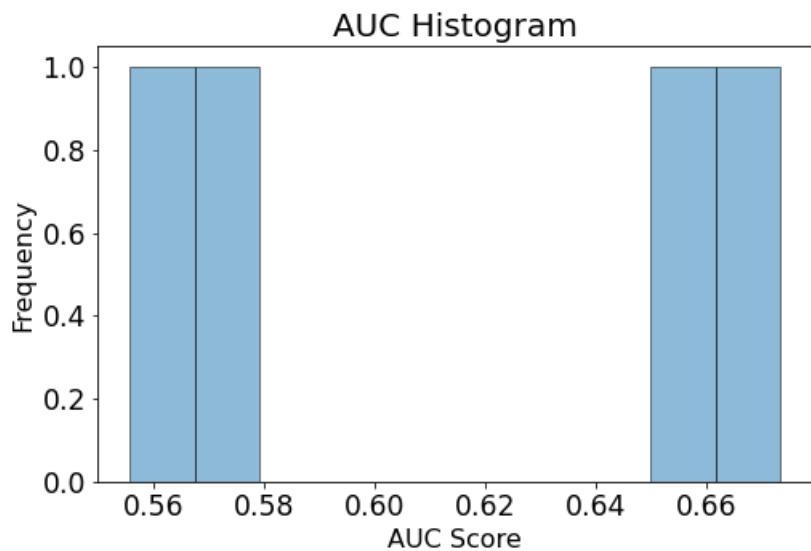
## Confusion Matrix



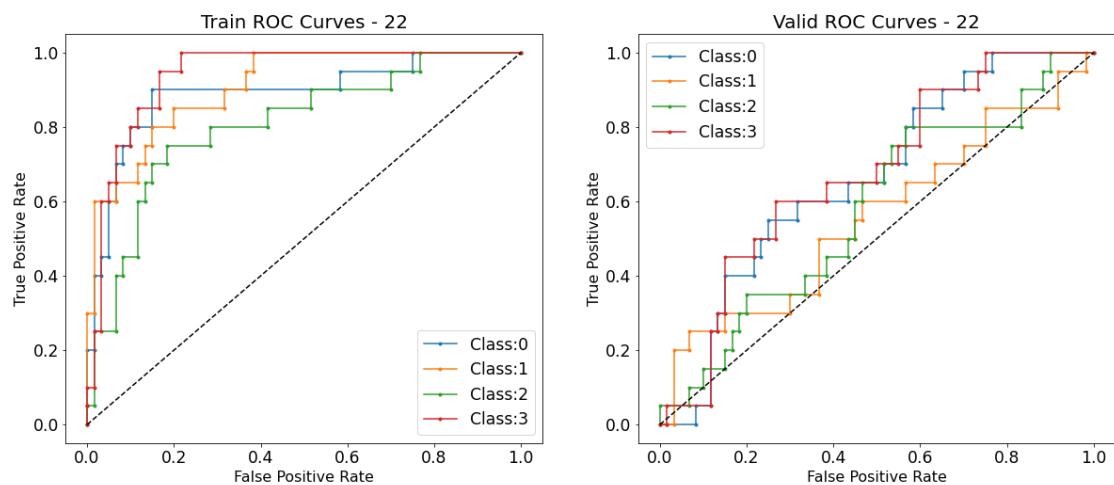
## AUC



## AUC Histogram



## ROC Curves



## Sample Images



## Wrongly Classified Images





