

Random 5 Categories - 40 Images per category - Pretrained with Insects

Overall Statistics

Total Super Categories: 23

Total Categories: 114

Categories randomly combined: 5

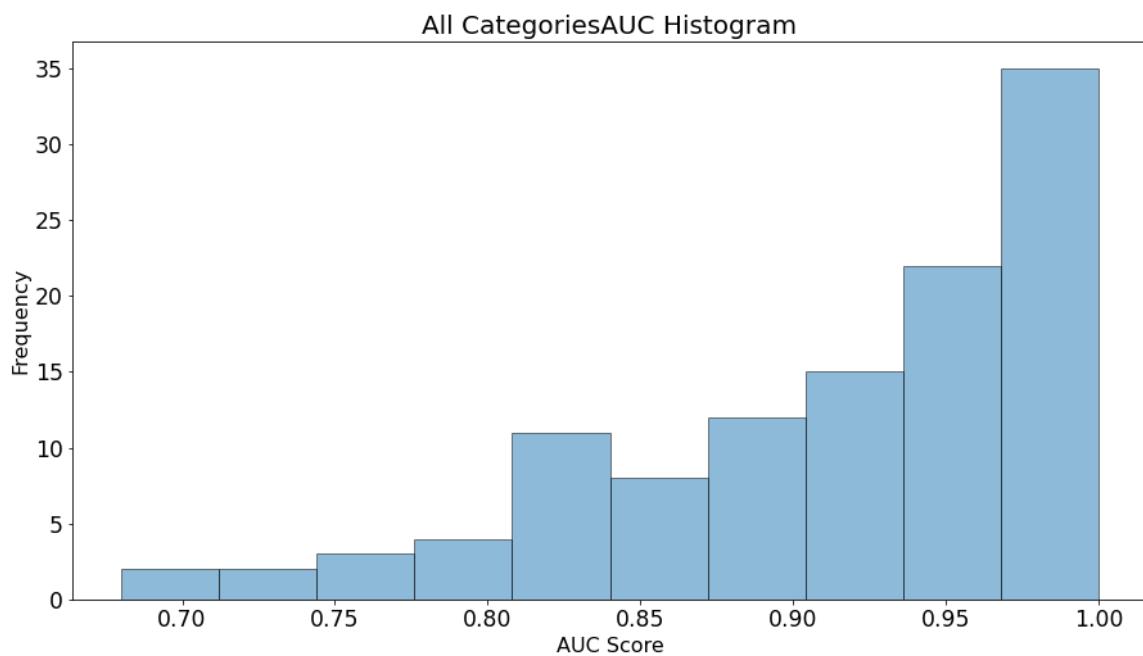
Summary

Super Category	Categories	AUC	Error
0	Le Sphinx gazé (Hemaris fuciformis) Les Zygunes à taches cerclées (Zygaena) Lycaenidae Lycidae Megachilidae	0.98	0.04
1	Elateridae Les Chloromyies (Chloromyia) Les Syrphes Sphaerophoria (femelle) (Sphaerophoria) Les Syrphes Sphaerophoria (mâle) (Sphaerophoria) Les Syrphes difficiles à déterminer	0.86	0.05
2	Colletidae Le Chrysotoxe à double ceinture (Chrysotoxum bicinctum) Les Hélophiles (Helophilus, Parhelophilus) Les Syrittes (Syritta) Scathophagidae	0.88	0.05
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)	0.95	0.04
4	Erebidae Les Chloropides jaunes (Thaumatomyia) Les Epeires concombre (Araniella) Les Trichies (Trichius) Pieridae	0.94	0.05
5	Formicidae Les Adèles unies (plusieurs Adelidae) Les Rêduves (Rhynocoris) Oedemeridae Sphecidae	0.81	0.05
6	Cantharidae Les Cétoines métalliques à marques blanches (Cetonia, Protaetia) Les Uolidides allongés (Dorycera, Otites) Les Zygunes à taches simples (Zygaena) Muscidae	0.96	0.04
7	Coccinellidae L'Eristale des fleurs (Myathropa florea) Les Charançons verts (Phyllobius, Polydrusus)	0.92	0.05

	Les Syrphes Syrphus et autres (Syrphus, Dasysyrphus et autres) Rhopalidae		
8	Cerambycidae Cleridae Les Buprestes à points (Acmaeodera et autres) Mordellidae Pentatomidae	0.94	0.04
9	La Ferdinandea cuprea (Ferdinandea cuprea) La Volucelle zonée (Volucella zonaria) Le Syrphe ceinturé (Epihydrus balteatus) Les Stratiomes mâtalliques fins (Sargus et autres) Les Ulidides mâtalliques (Physiphora et autres)	0.91	0.05
10	Chrysomelidae Hesperiidae Le Syrphe porte-plume (mâle) (Sphaerophoria scripta) Les Taons clairs (Atylotus, Silvius) Pyrochroidae	0.97	0.04
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	0.81	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	0.88	0.04
13	Le Drap mortuaire (Oxythyrea funesta) Les Punaises prédatrices ternes (Physiphora) Les Syrphes aux faces enflées Nymphalidae Pyrrhocoridae	0.99	0.03
14	Le Gâteau à barreaux (Chiasmia clathrata) Les Câtoines sombres glabres (Protaetia) Les Rhingies (Rhingia) Les Stratiomes blanc et noir (Nemotelus) Tenebrionidae	0.97	0.03
15	Andrenidae Le Moro-sphinx (Macroglossum stellatarum) Melittidae Mycteridae Papilionidae	0.97	0.04
16	Apidae Les Chloropides jaunes à faces enflées (Meromyza) Les Hennetons (Anisoplia, Phyllopertha) Les Stratiomes verts (Odontomyia, Oplodontha) Meloidae	0.9	0.04
17	Les Chrysotoxes (Chrysotoxum) Les Turquoises (Adscita, Jordanita) Pompilidae Tenthredinidae Tiphiidae	0.9	0.05
18	Coreidae La Volucelle enflée (Volucella inflata) Les Buprestes unis brillants (Anthaxia et autres) Les Syrphes aux antennes à bout blanc (Callicera)	0.94	0.04

	Nitidulidae			
19	Cimbicidae La Volucelle transparente (<i>Volucella pellucens</i>) Les Eristales (autres) (<i>Eristalis</i>) Les G@om@tres (Geometridae) Noctuidae	0.88	0.05	
20	Cydnidae La Mil@sie frelon (<i>Milesia crabroniformis</i>) Les Eristales aux yeux ponctu@s (<i>Eristalinus</i>) Scoliidae Vespidae	0.89	0.05	
21	Dasytidae Les Charan@sons (autres) (<i>Larinus et autres</i>) Les Epeires et autres Araneidae Les Epeires @ dessin de feuille de Chaf@ne (<i>Aculepeira, Neoscona</i>) Lygaeidae	0.86	0.05	
22	Crabronidae L'Eristale taeniops (<i>Eristalinus taeniops</i>) Les Syrphes @ abdomen fin (<i>Meliscaeva et autres</i>) Les Taons sombres (plusieurs Tabanidae)	0.86	0.05	

Overall AUC Histogram



Super-Category 0

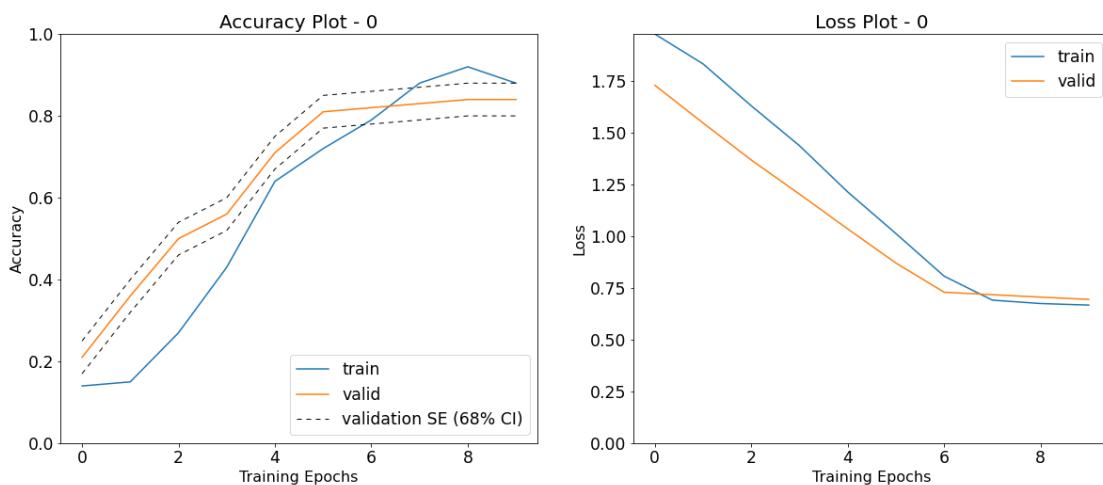
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 58s
Best Train Accuracy	0.92
Best Valid Accuracy	0.84
AUC	0.98
2*AUC-1	0.95
Standard Error	0.04

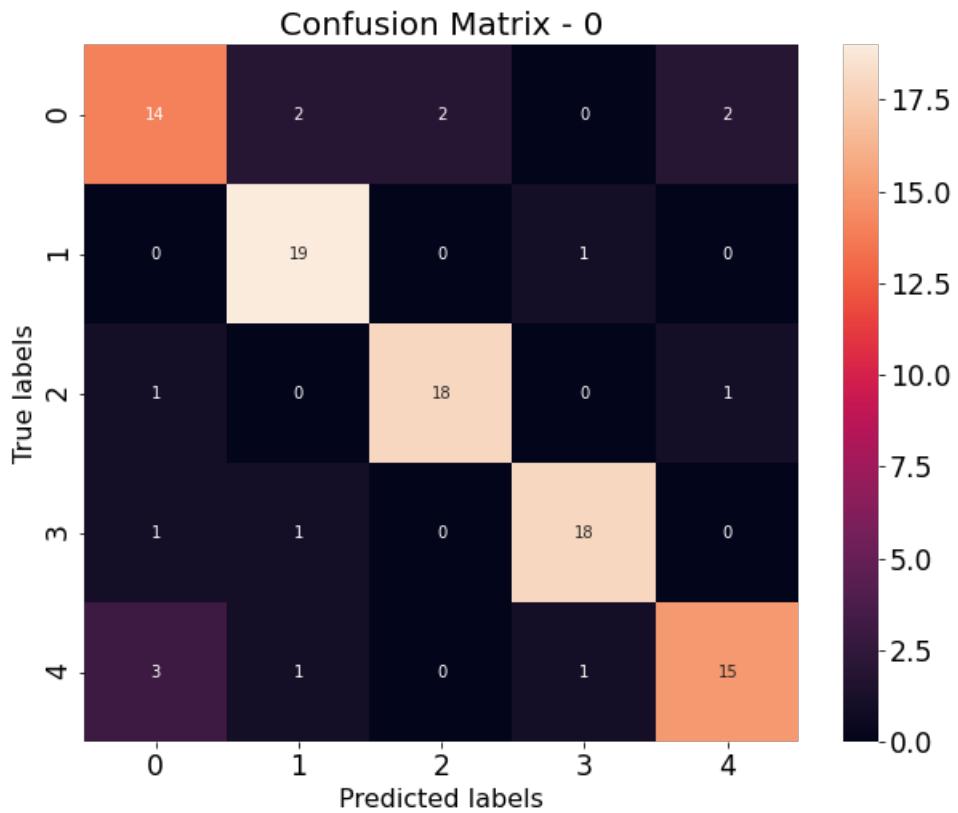
Categories

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

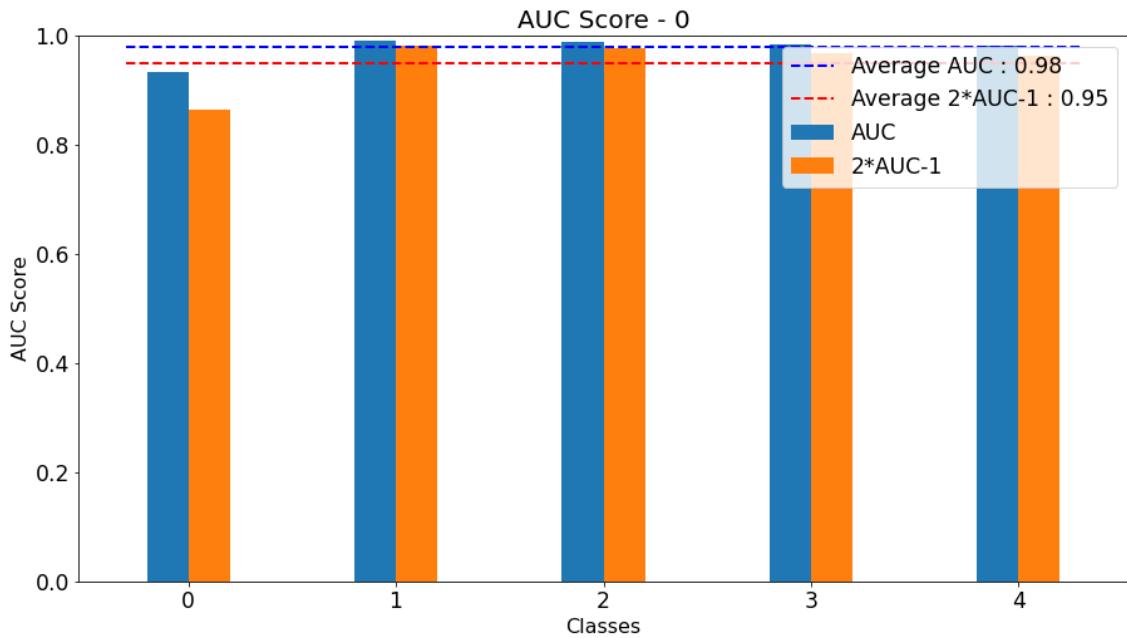
Accuracy Loss Plot



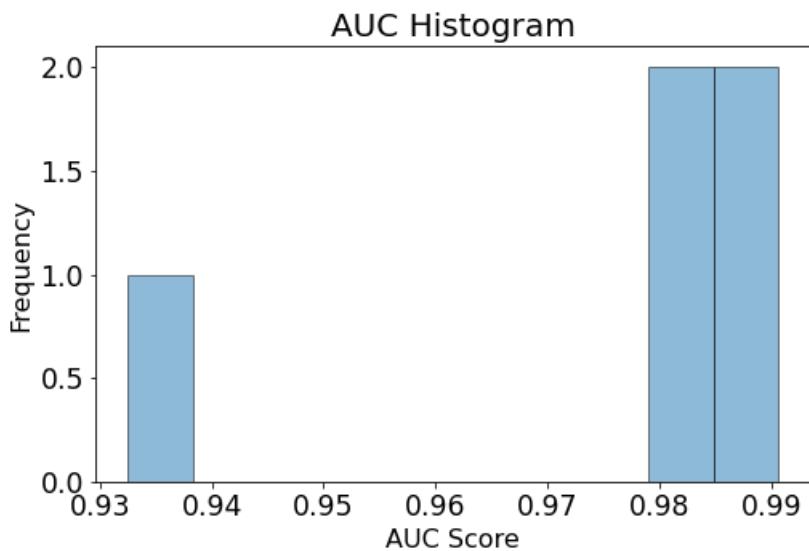
Confusion Matrix



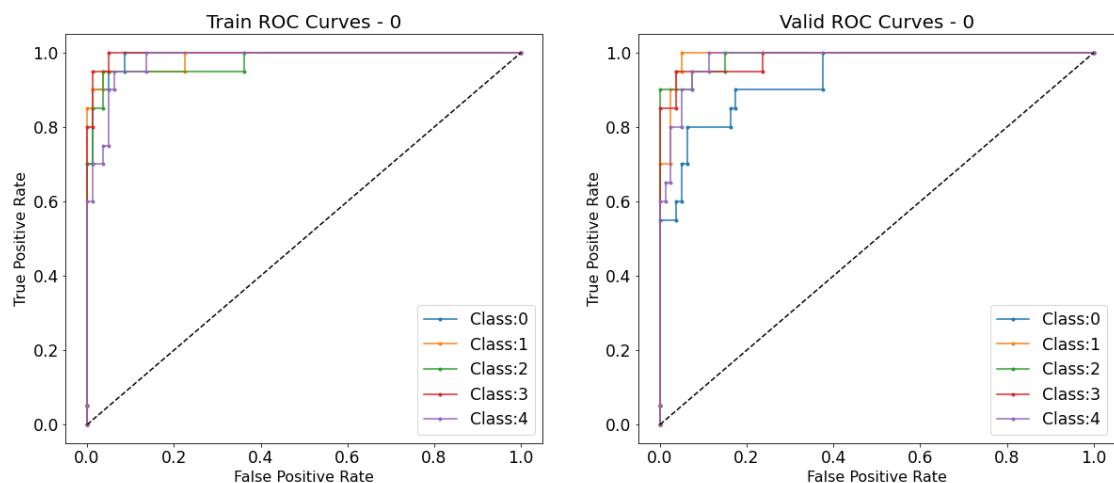
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 1

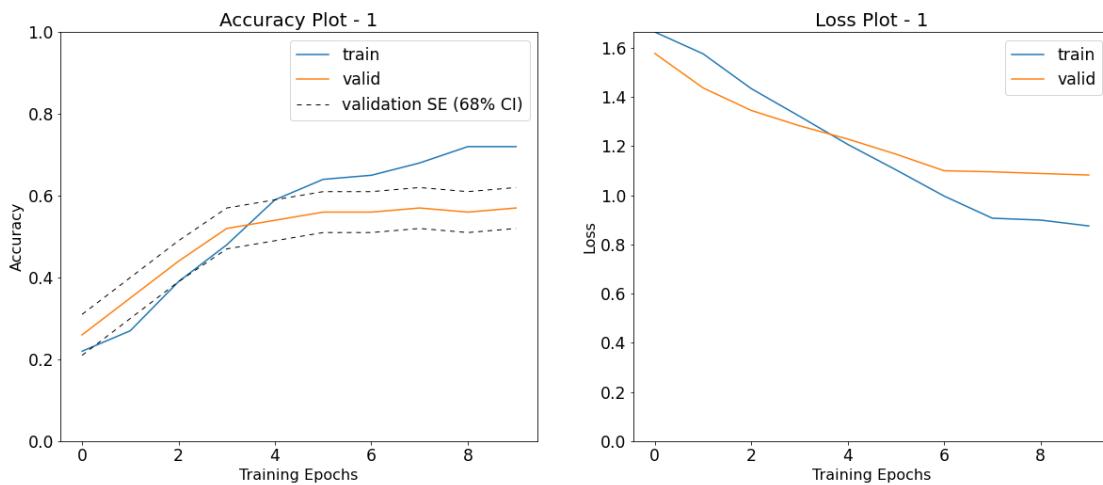
Statistics

Total Images	200
Train Images	100
Valid Images	100

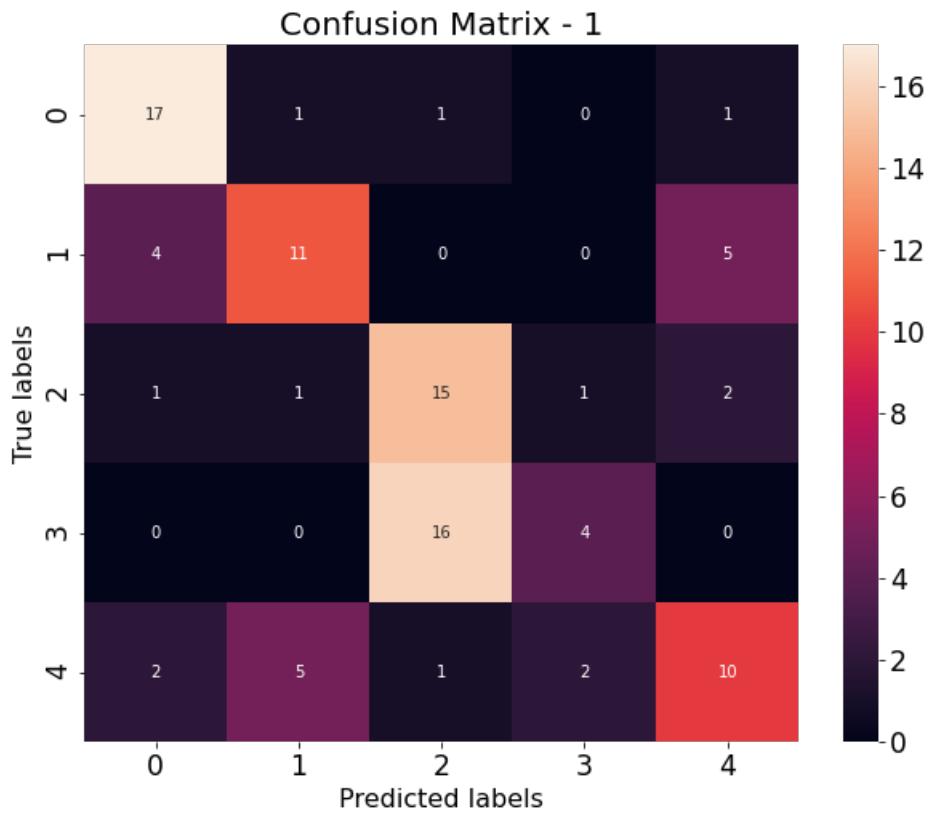
Categories

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

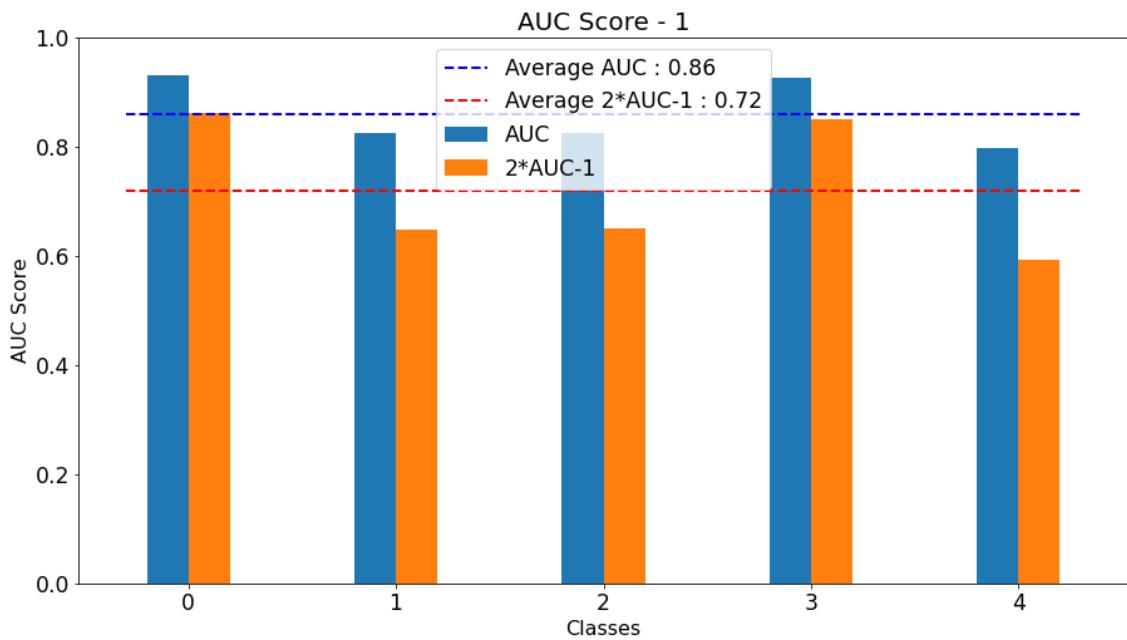
Accuracy Loss Plot



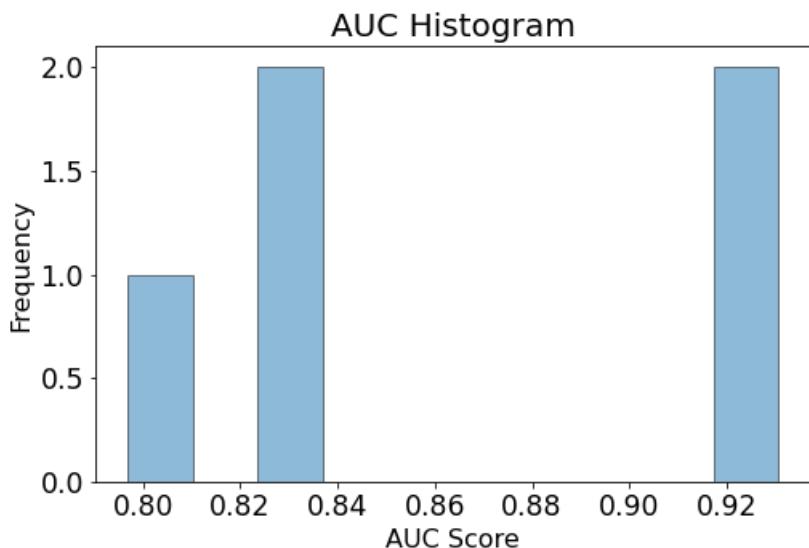
Confusion Matrix



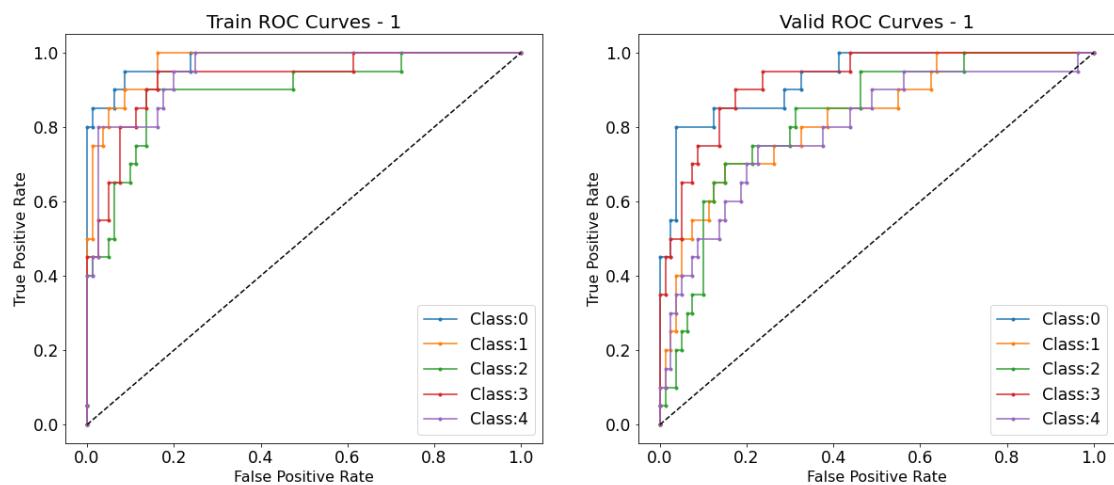
AUC



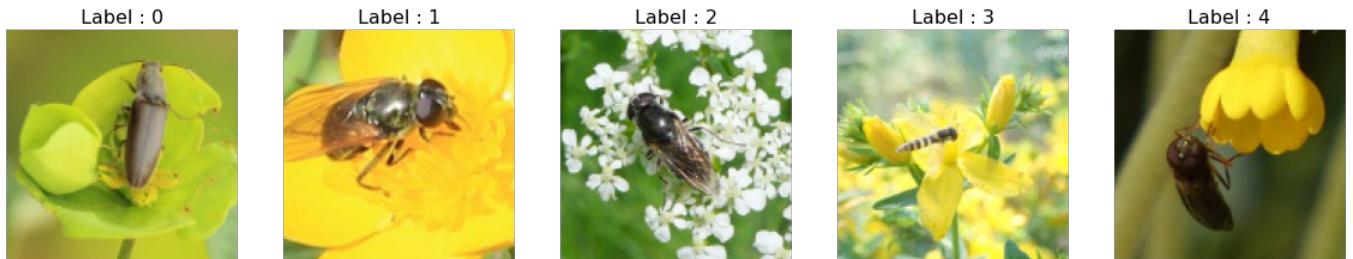
AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 2

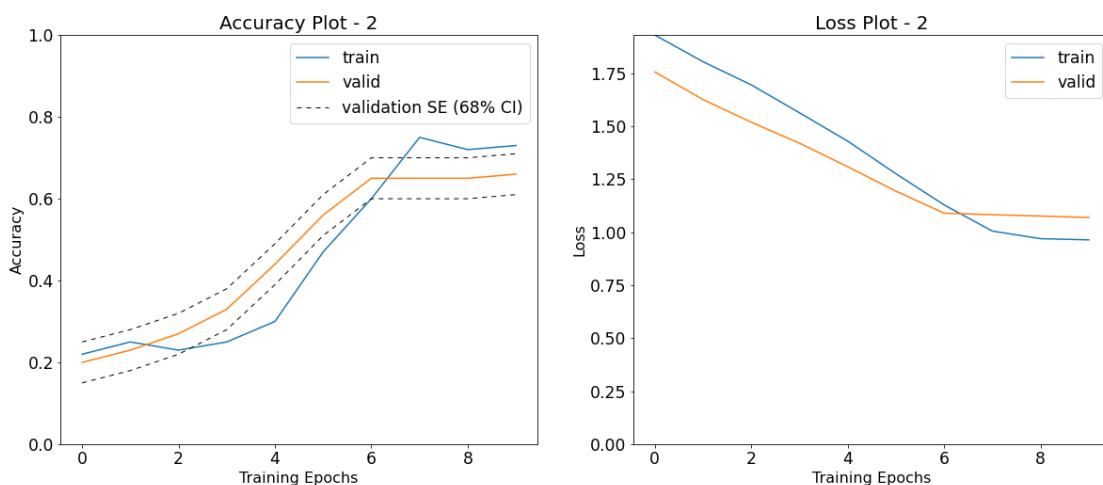
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 56s
Best Train Accuracy	0.75
Best Valid Accuracy	0.66
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AUC	0.88
2*AUC-1	0.76
Standard Error	0.05

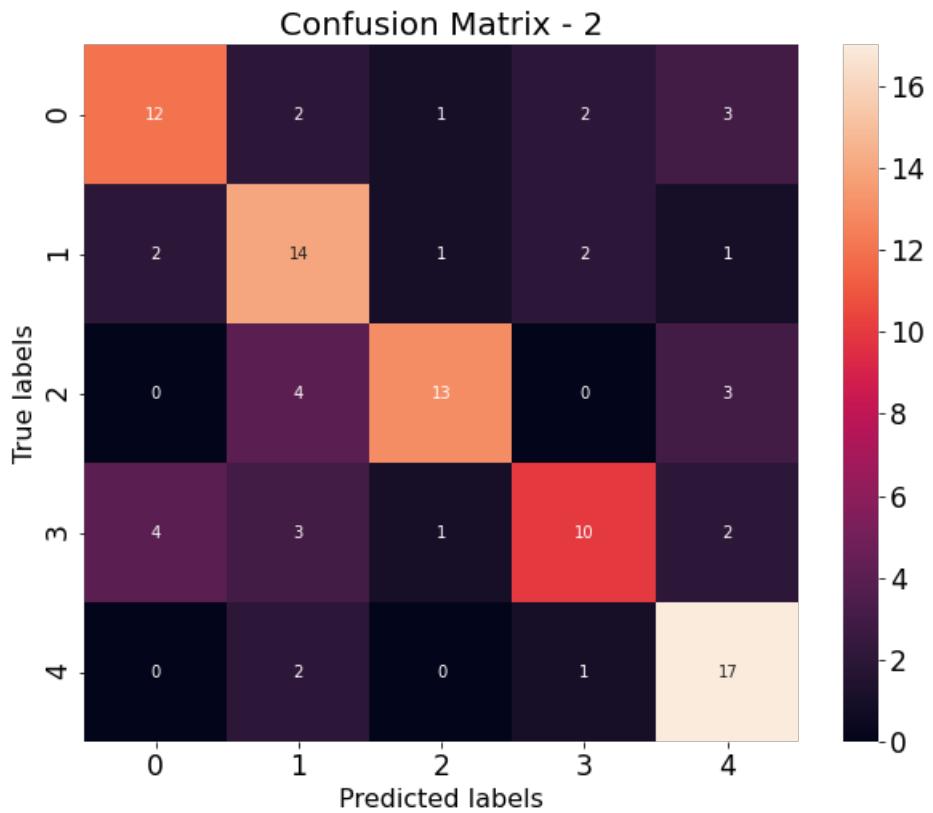
Categories

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

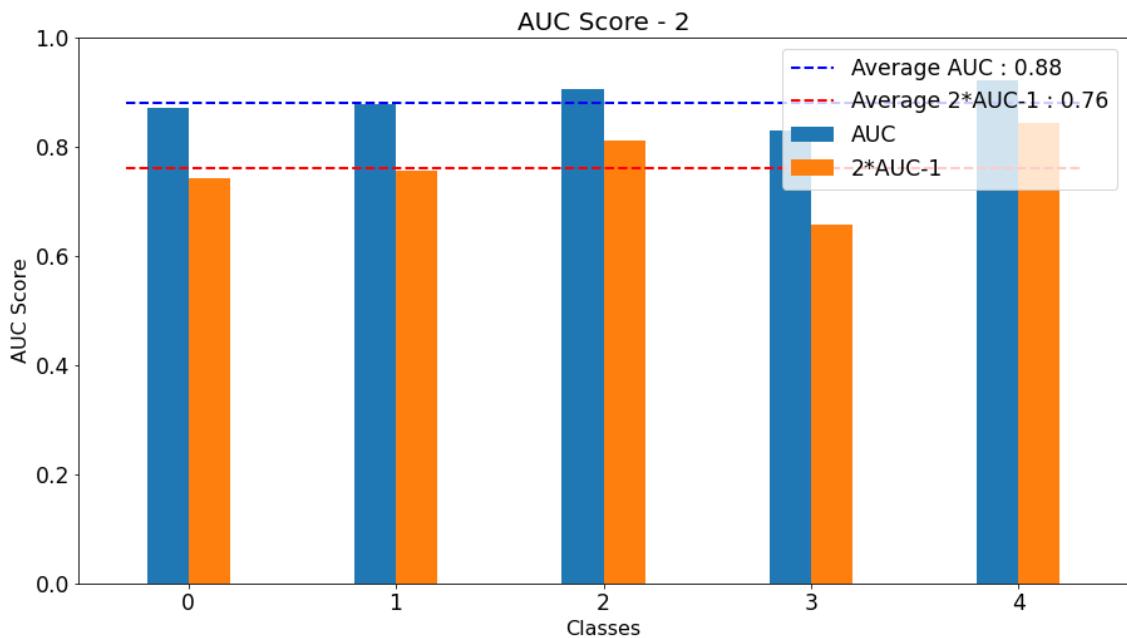
Accuracy Loss Plot



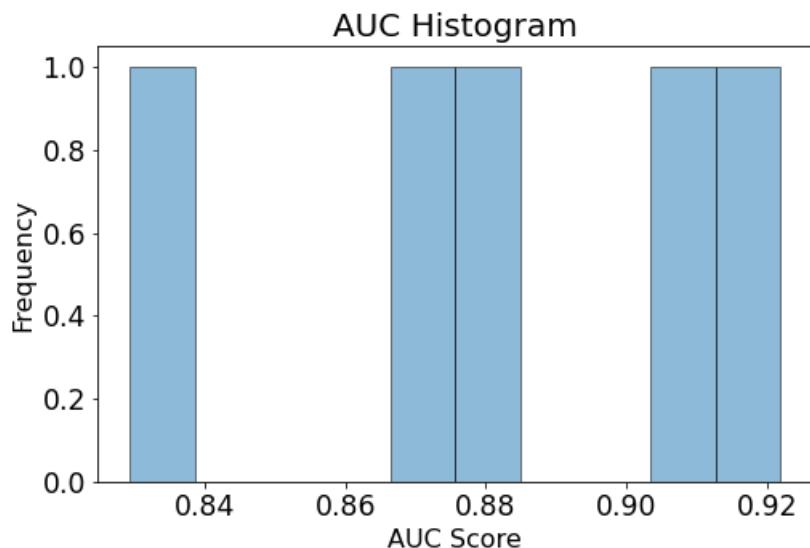
Confusion Matrix



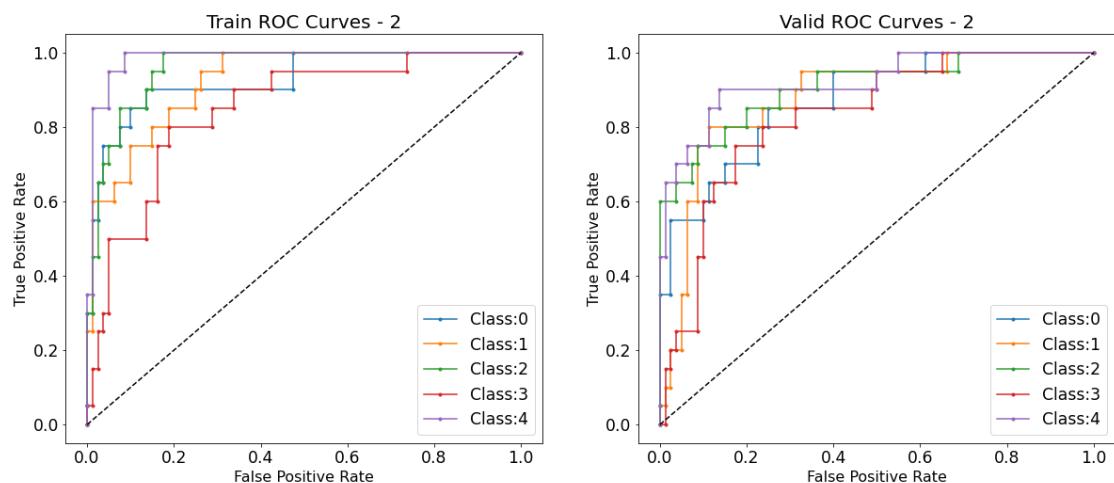
AUC



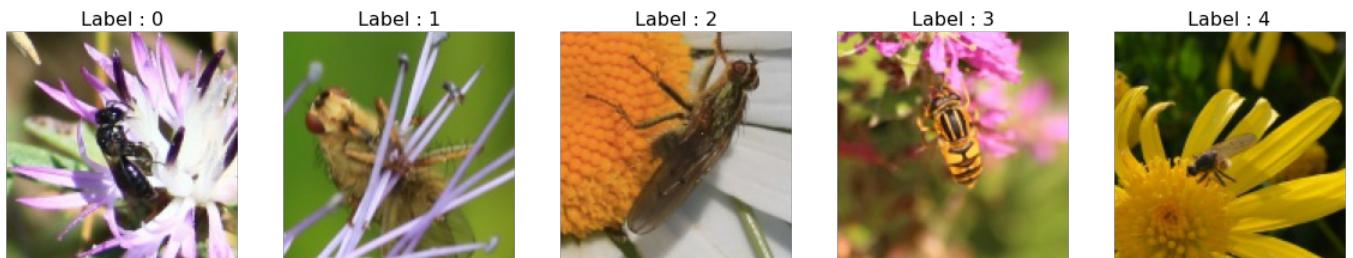
AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 3

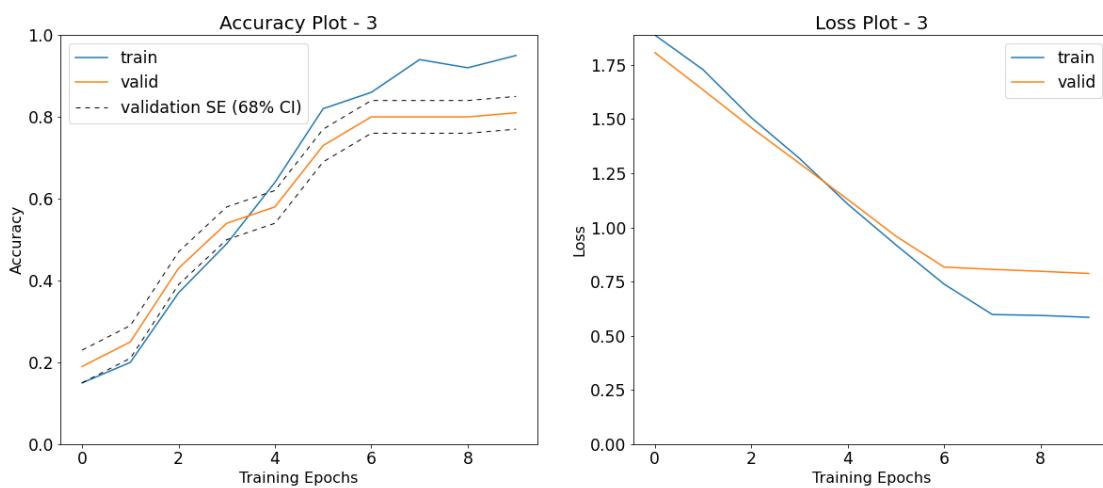
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 56s
Best Train Accuracy	0.95
Best Valid Accuracy	0.81
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AUC	0.95
2*AUC-1	0.9
Standard Error	0.04

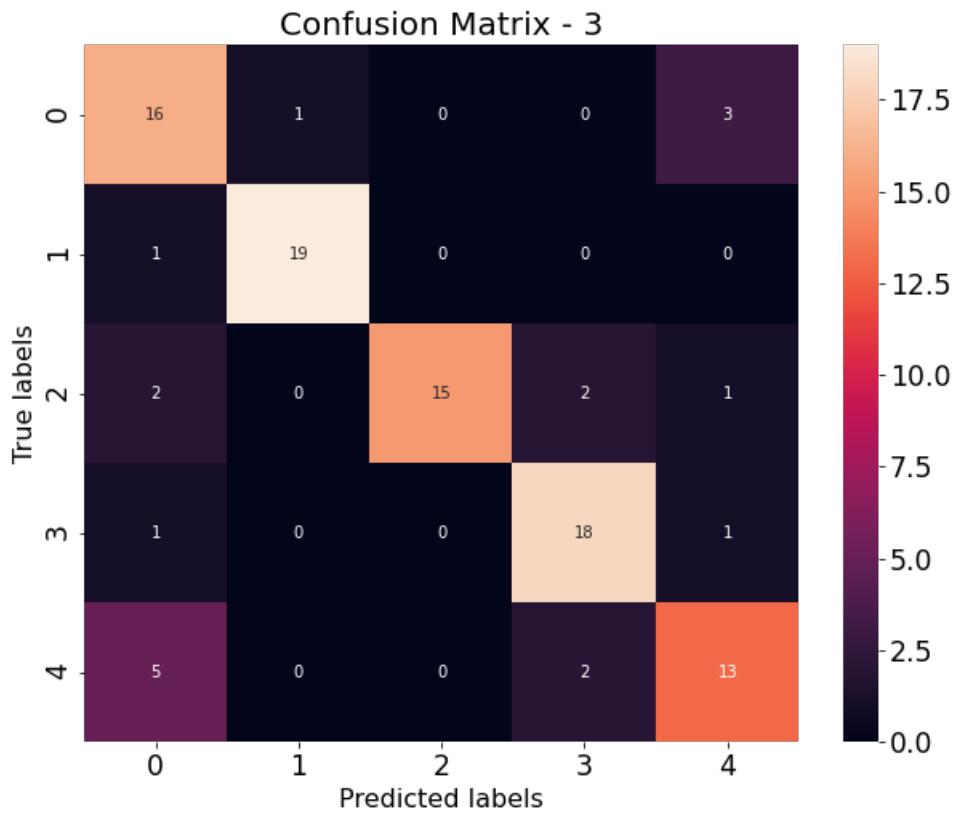
Categories

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

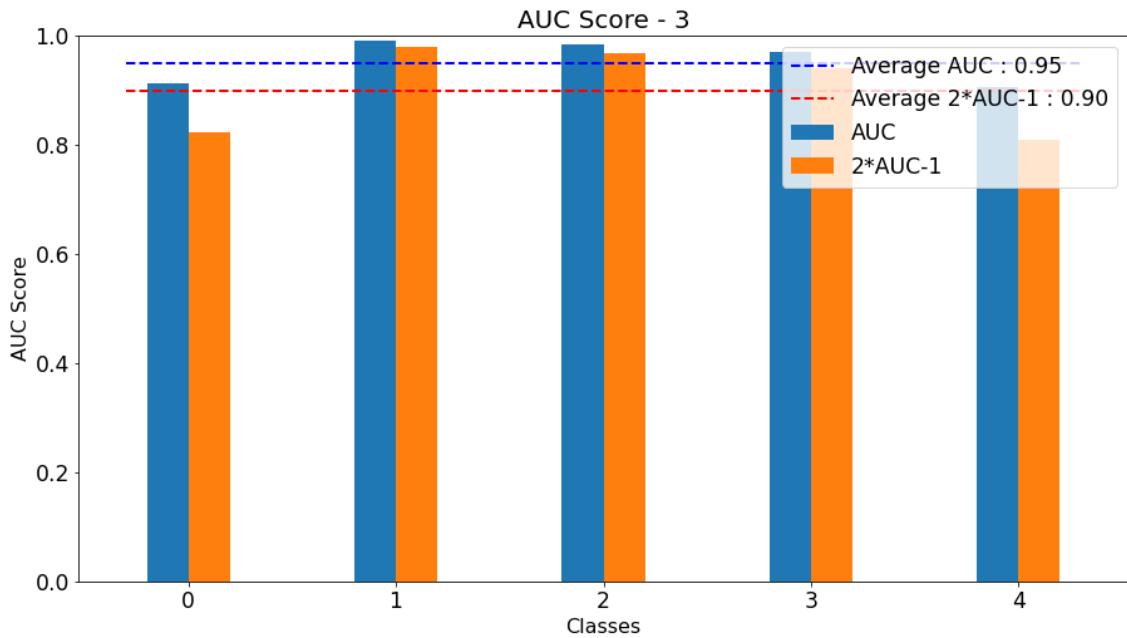
Accuracy Loss Plot



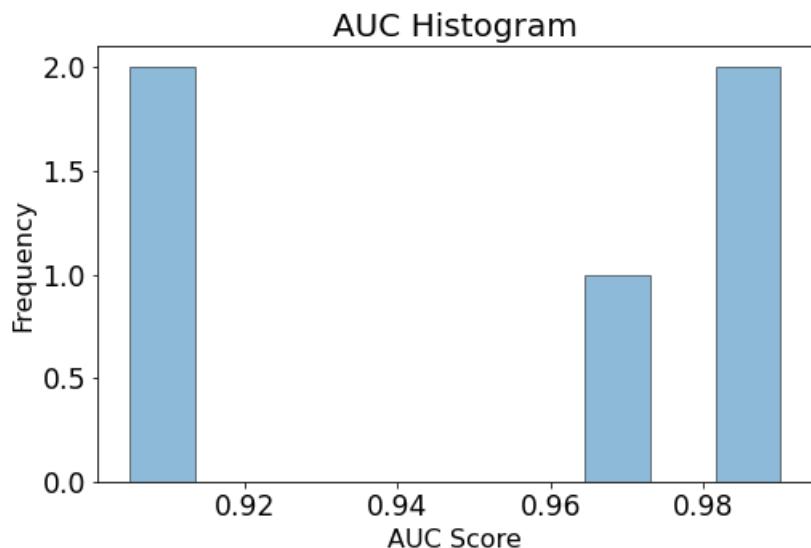
Confusion Matrix



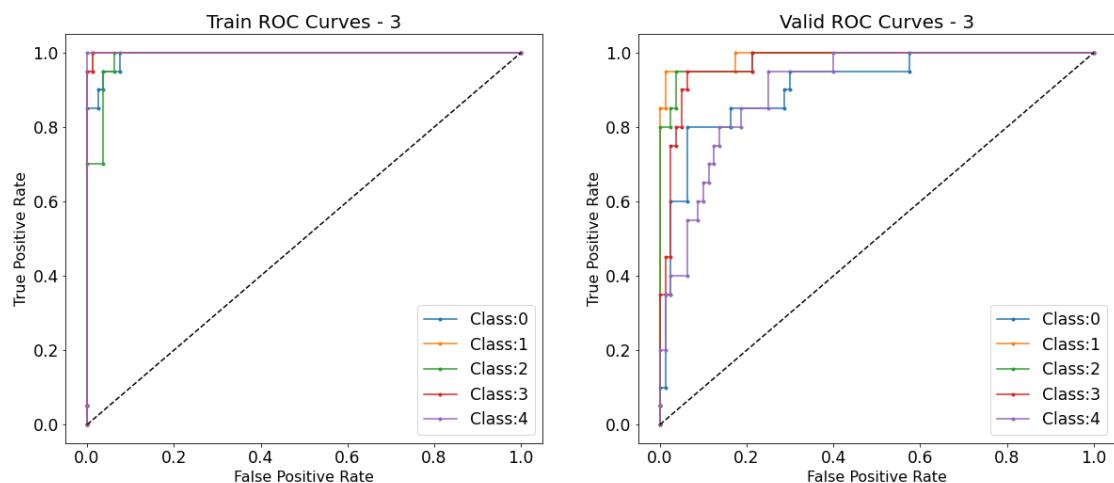
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 4

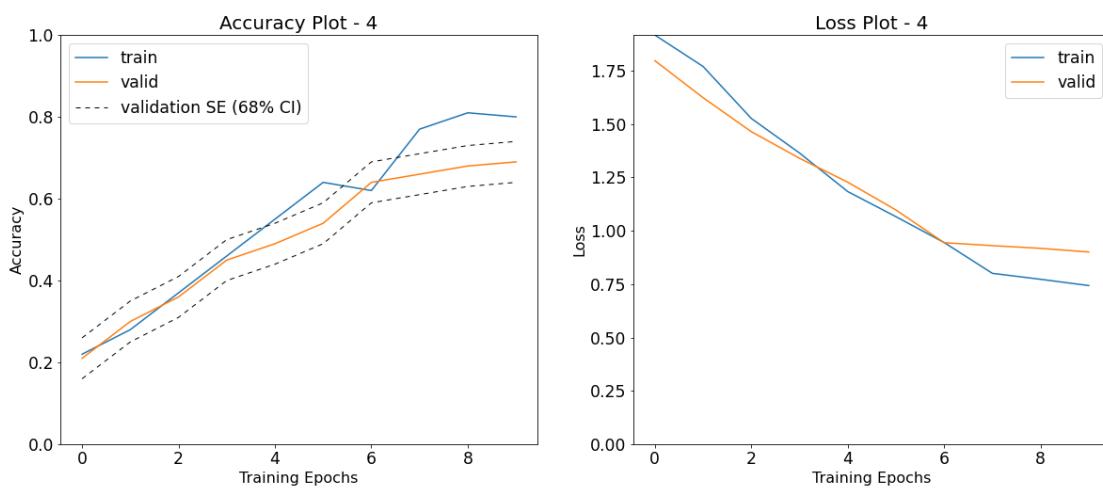
Statistics

Total Images	200
Train Images	100
Valid Images	100
Training Time	0m 56s
Best Train Accuracy	0.81
Best Valid Accuracy	0.69
AUC	0.94
2*AUC-1	0.88
Standard Error	0.05

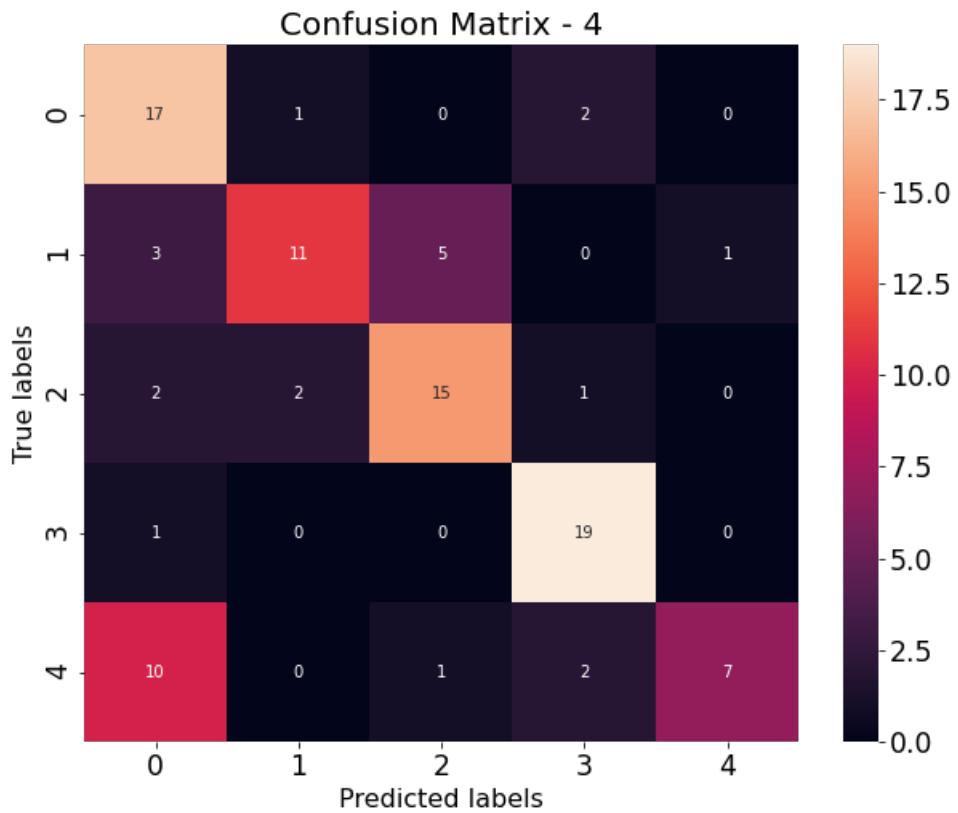
Categories

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

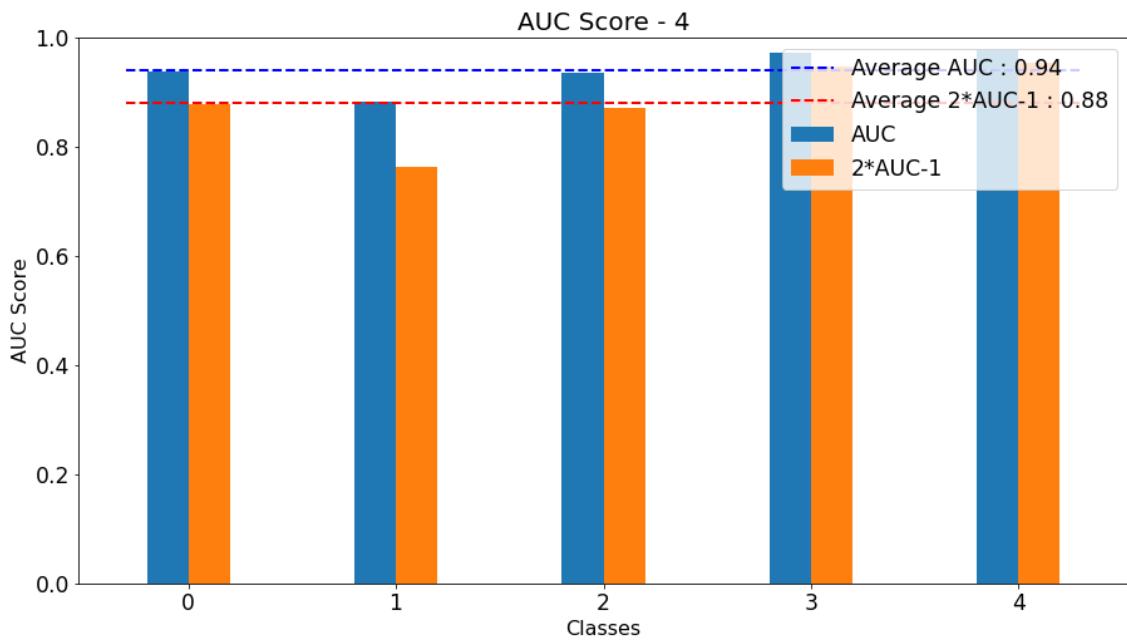
Accuracy Loss Plot



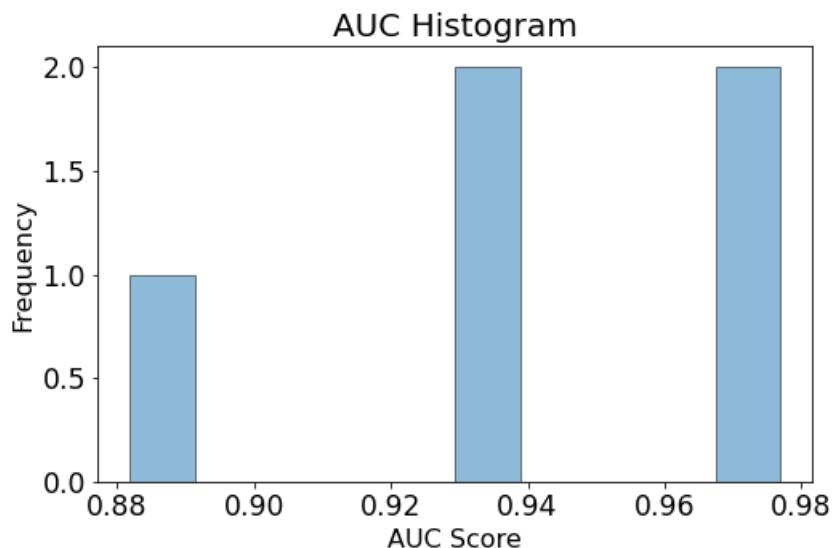
Confusion Matrix



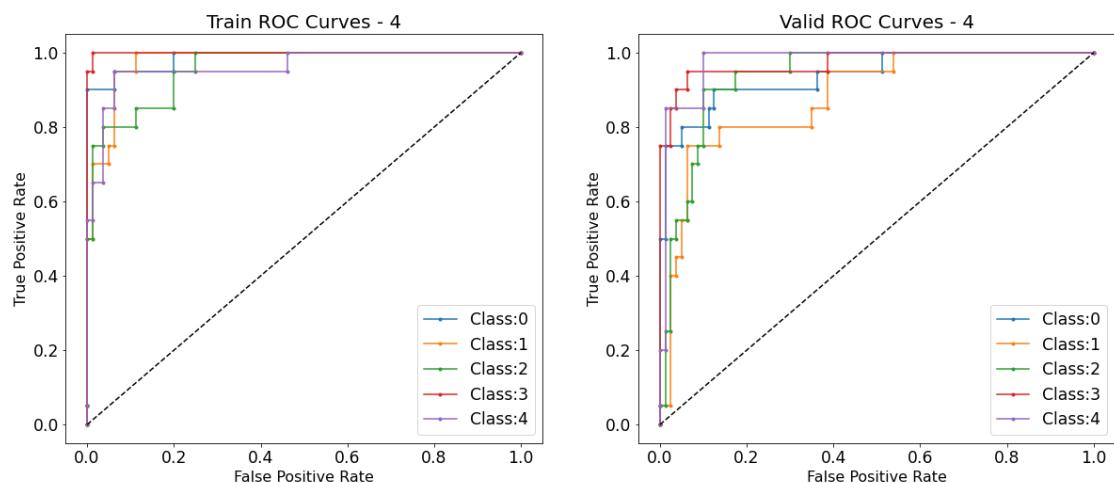
AUC



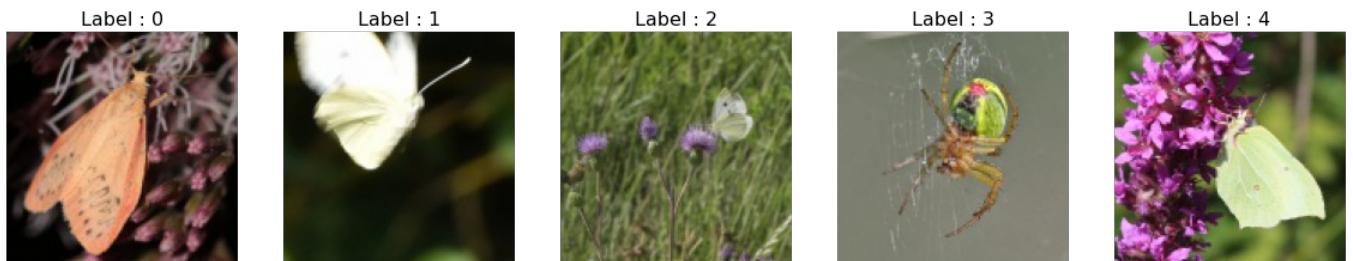
AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 5

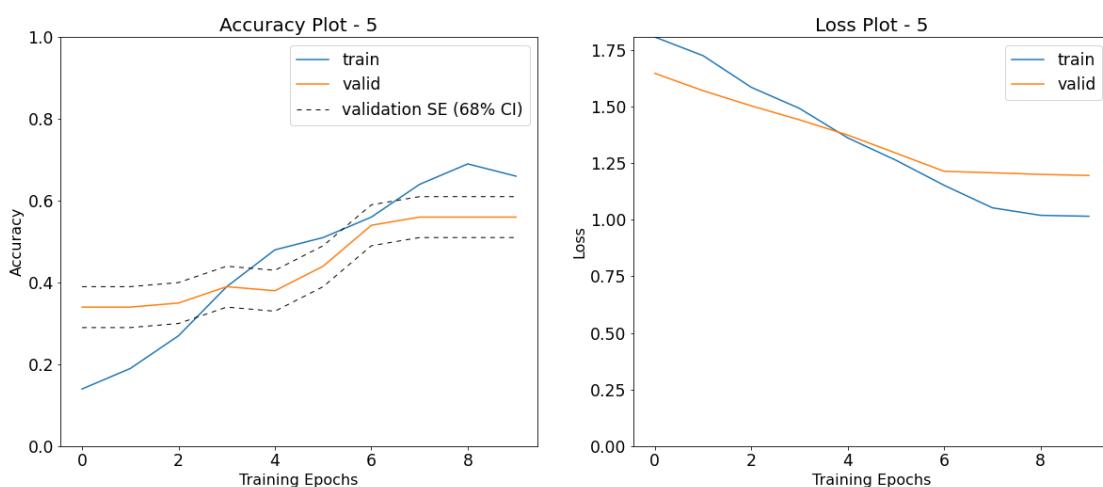
Statistics

Total Images	200
Train Images	100
Valid Images	100

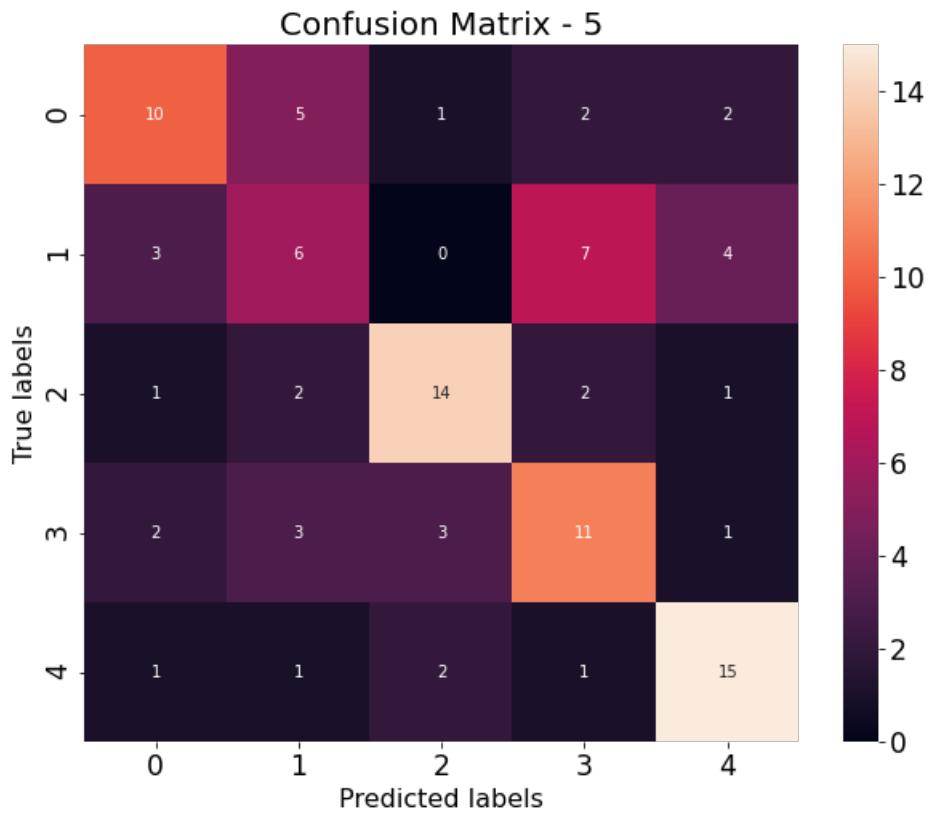
Categories

Formicidae
Les Adélie unies (plusieurs Adelidae)
Les Rhinocorides (Rhinocoris)
Oedemeridae
Sphecidae

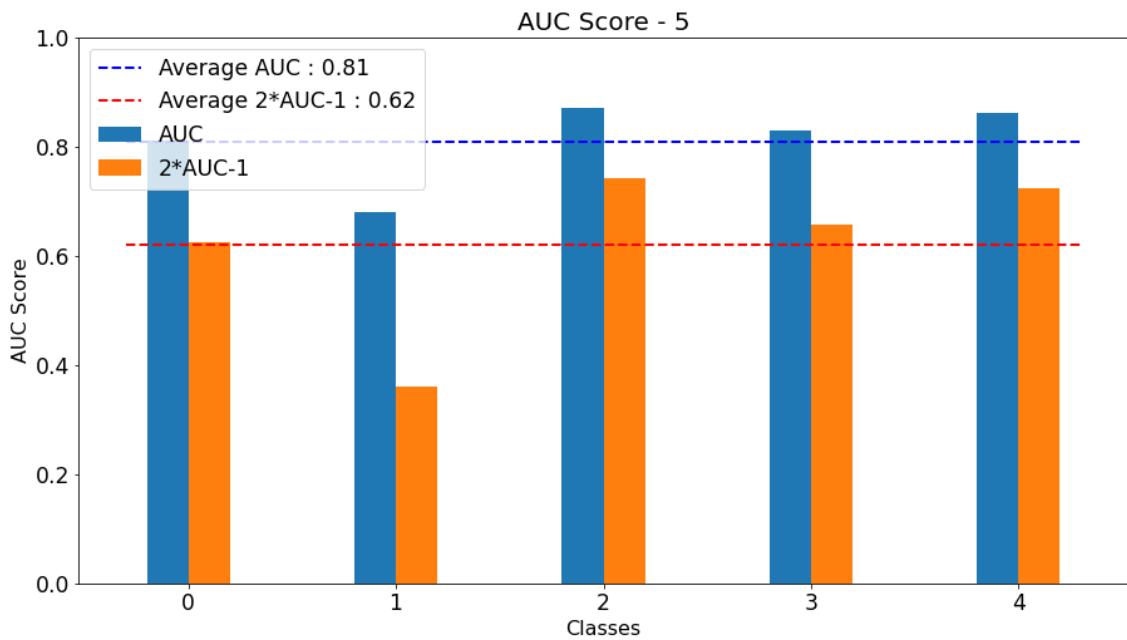
Accuracy Loss Plot



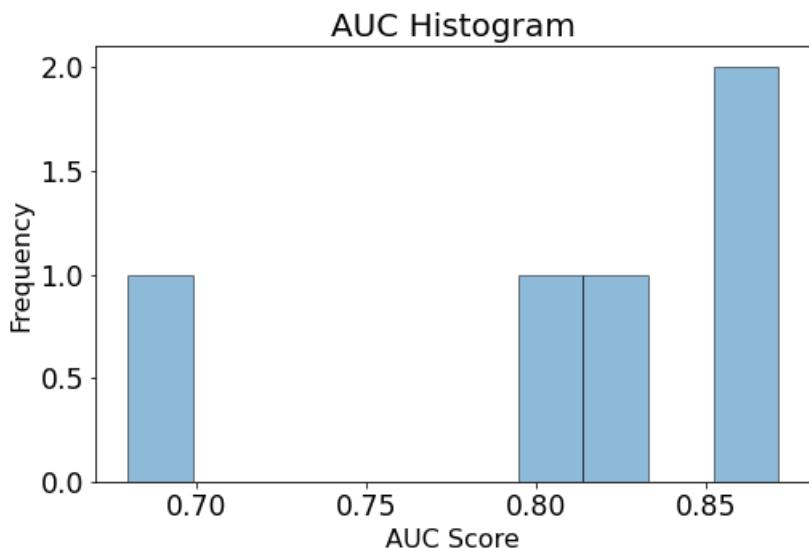
Confusion Matrix



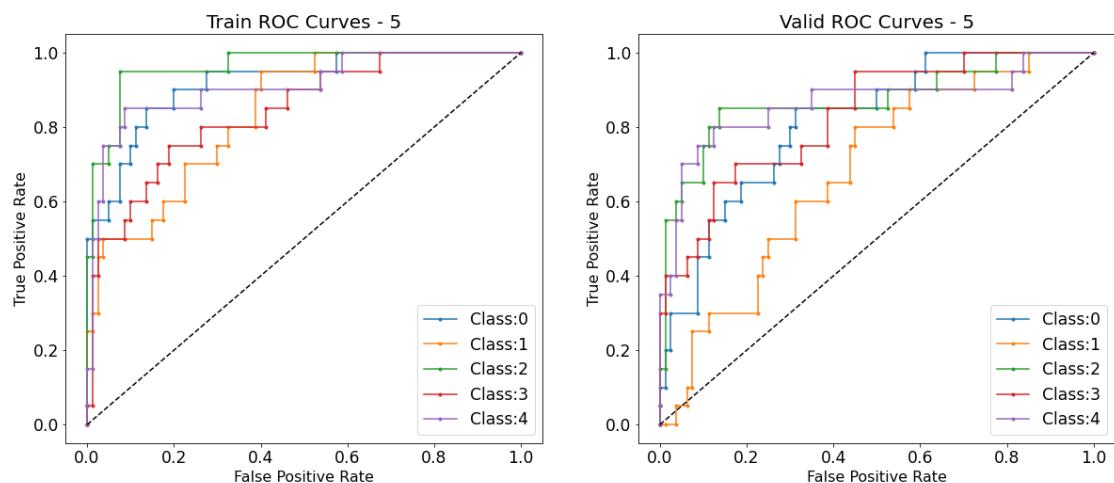
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 6

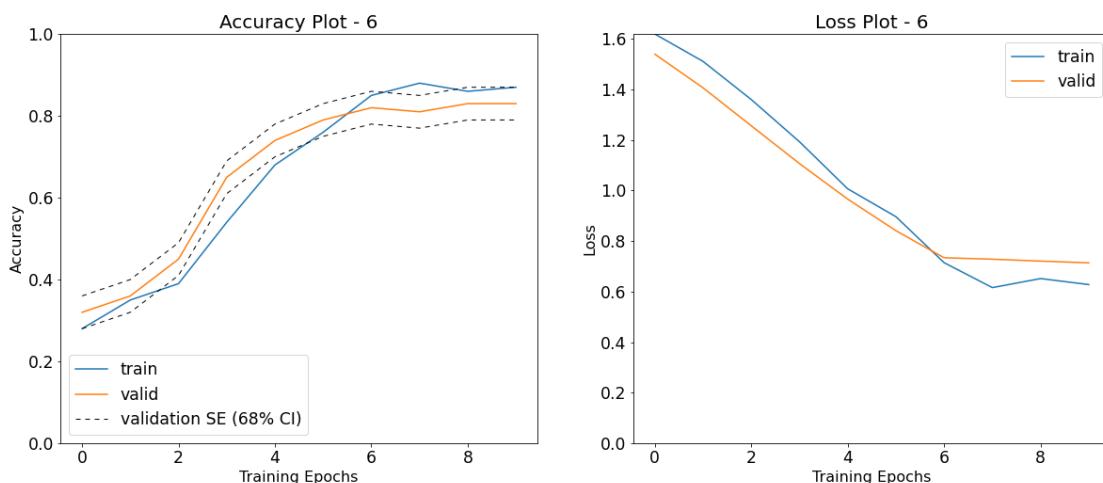
Statistics

Total Images	200
Train Images	100
Valid Images	100
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Training Time	0m 55s
Best Train Accuracy	0.88
Best Valid Accuracy	0.83
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AUC	0.96
2*AUC-1	0.93
Standard Error	0.04

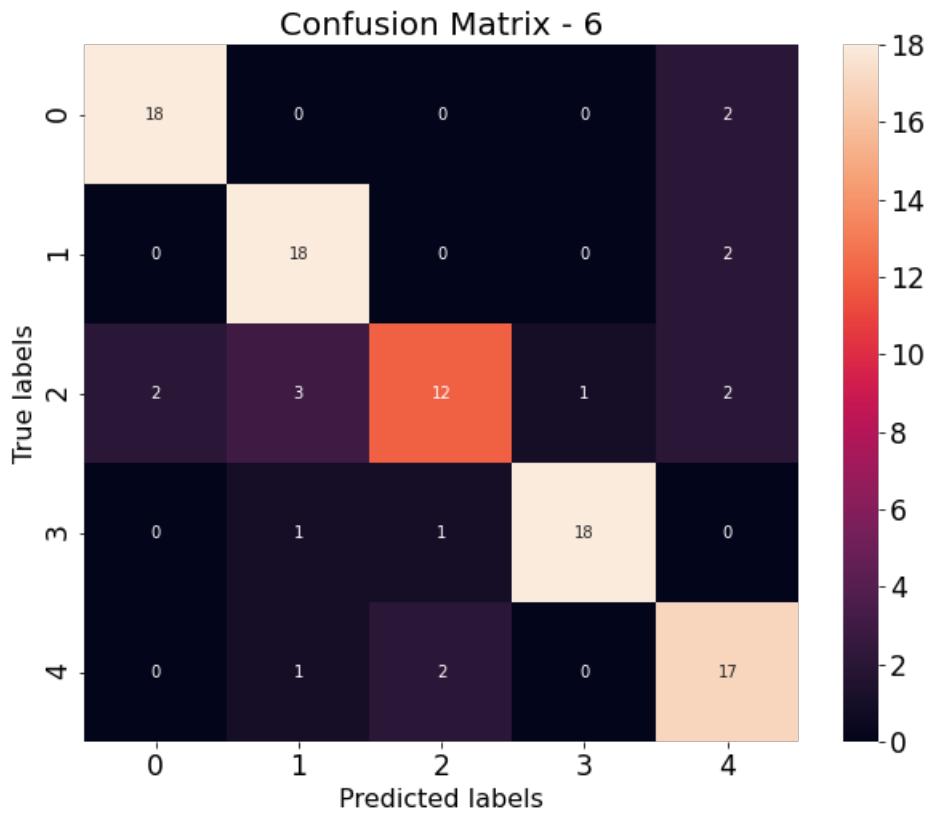
Categories

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

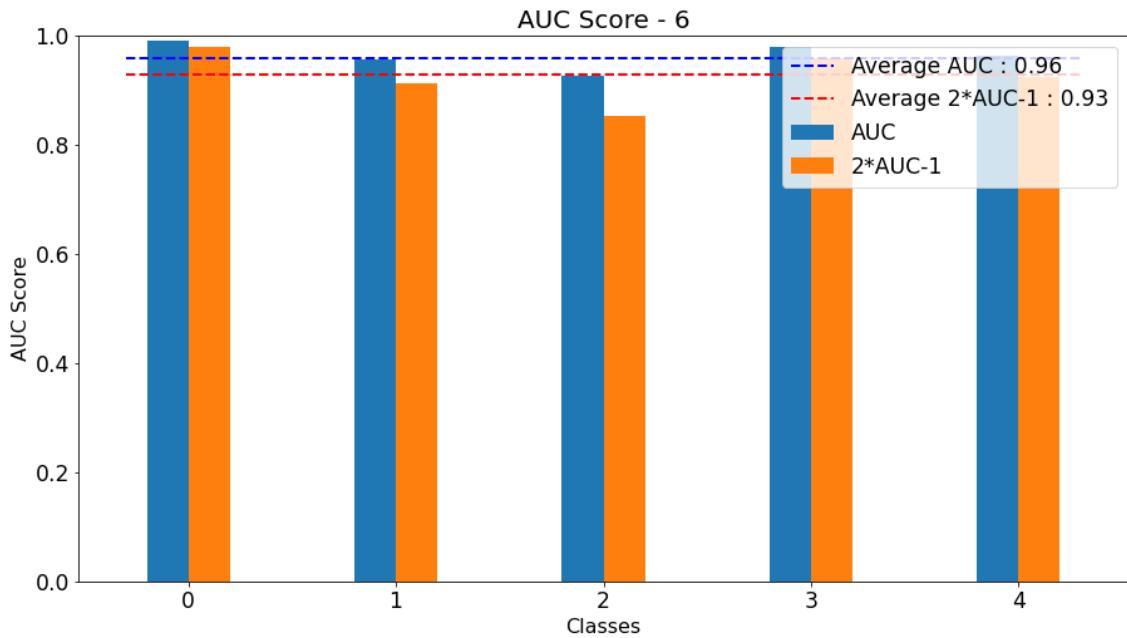
Accuracy Loss Plot



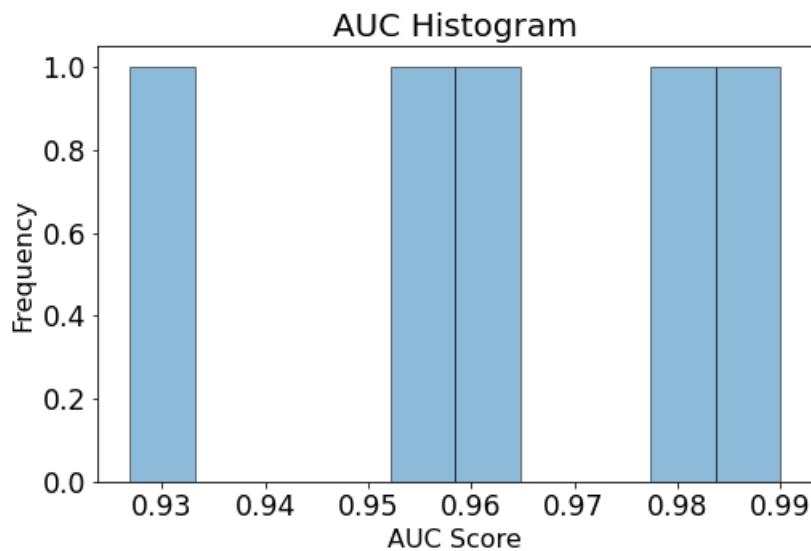
Confusion Matrix



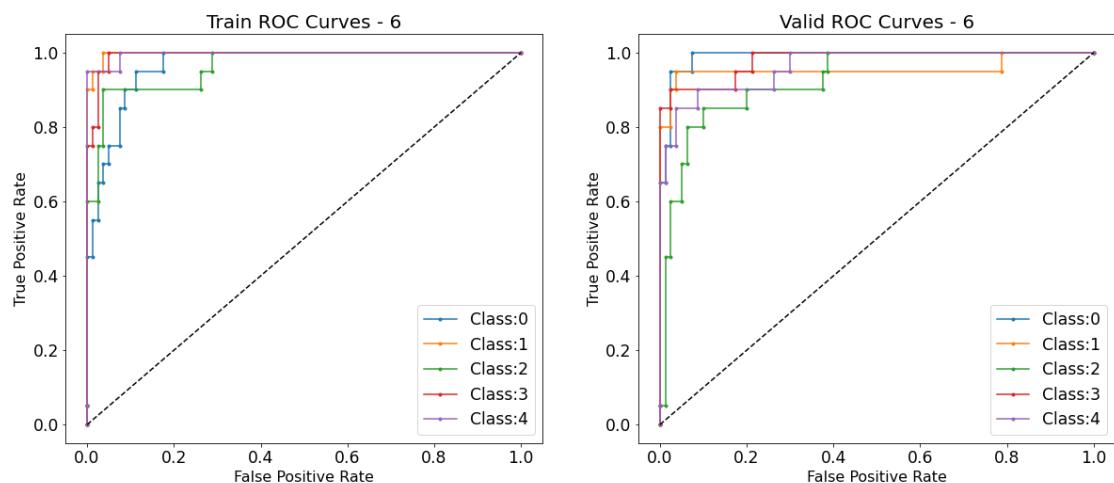
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 7

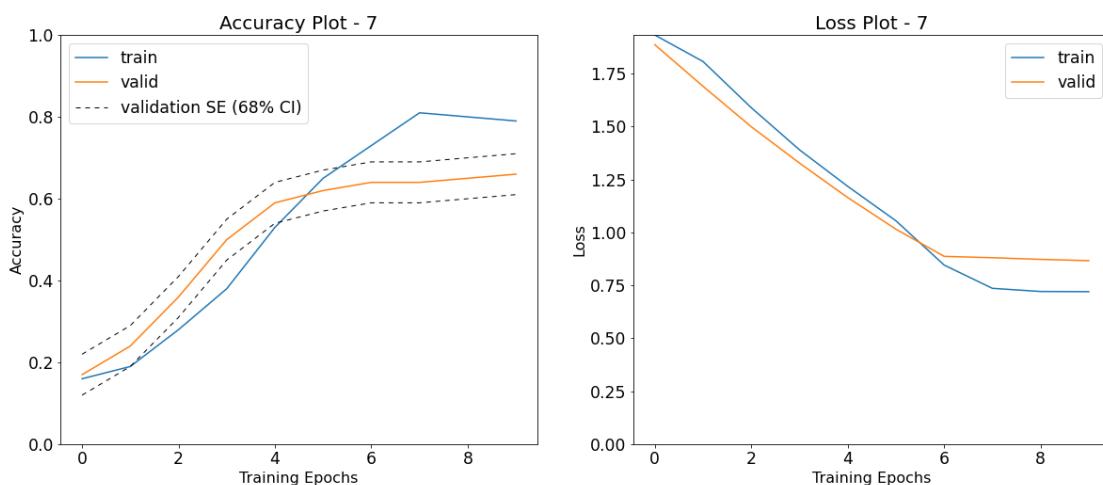
Statistics

Total Images	200
Train Images	100
Valid Images	100

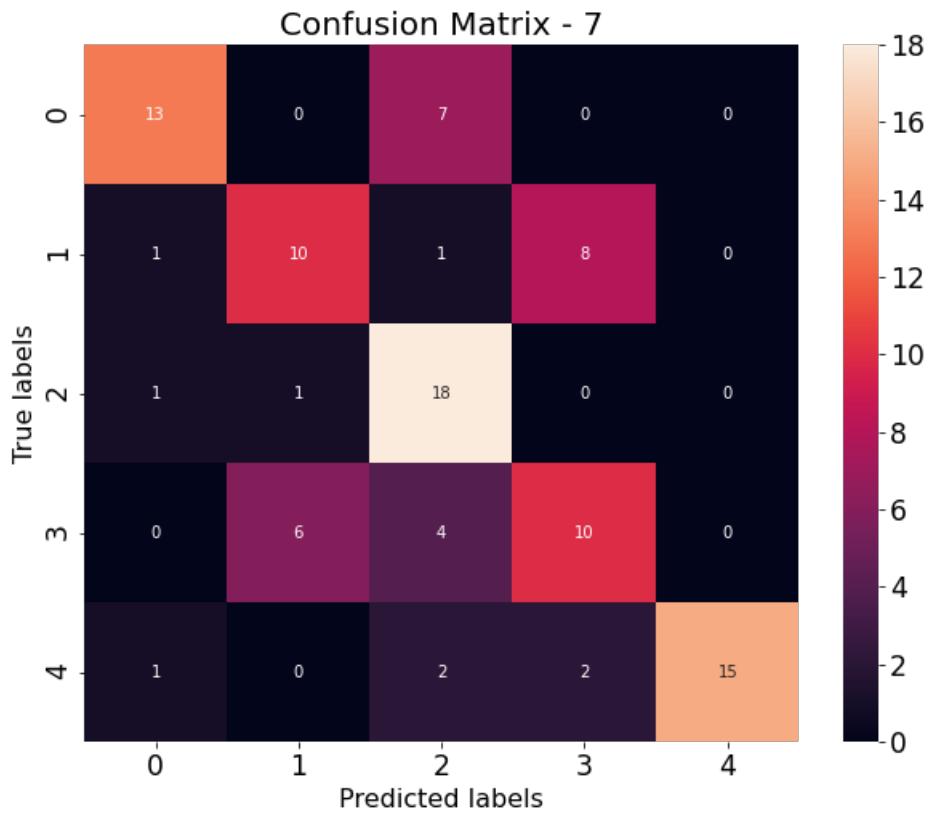
Categories

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

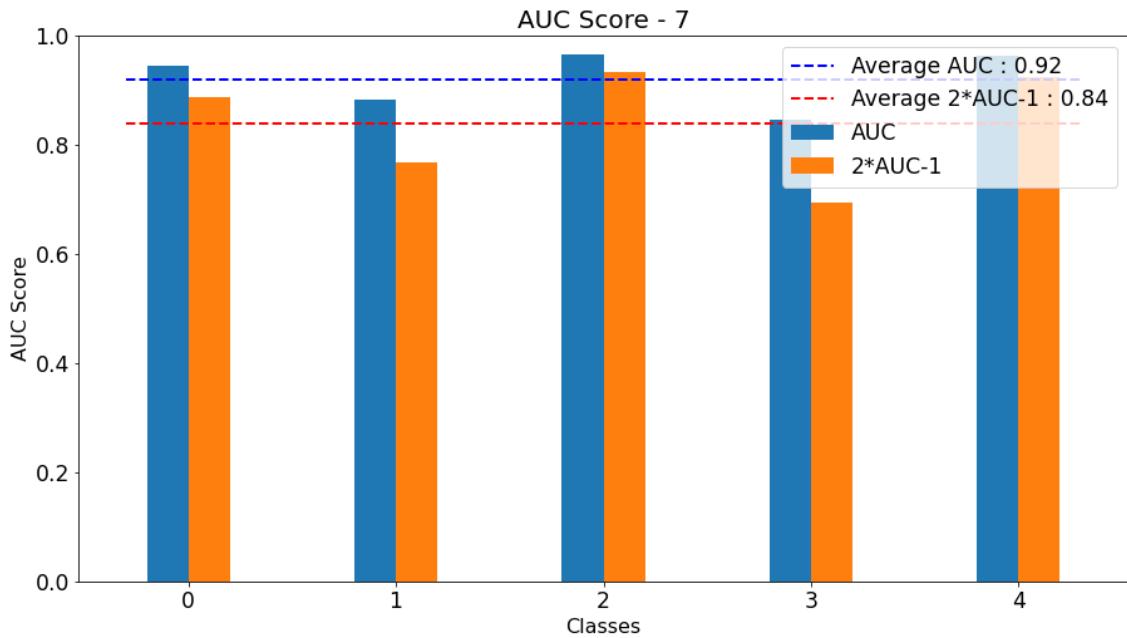
Accuracy Loss Plot



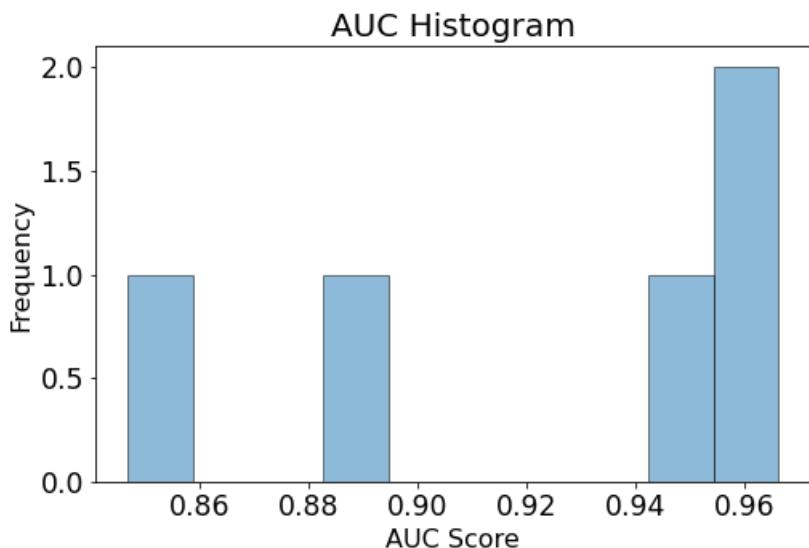
Confusion Matrix



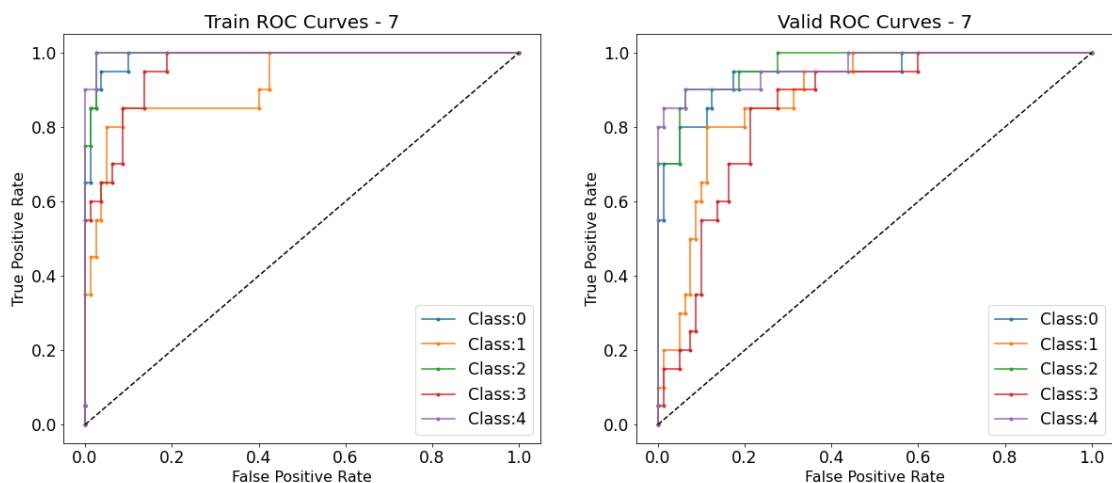
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 8

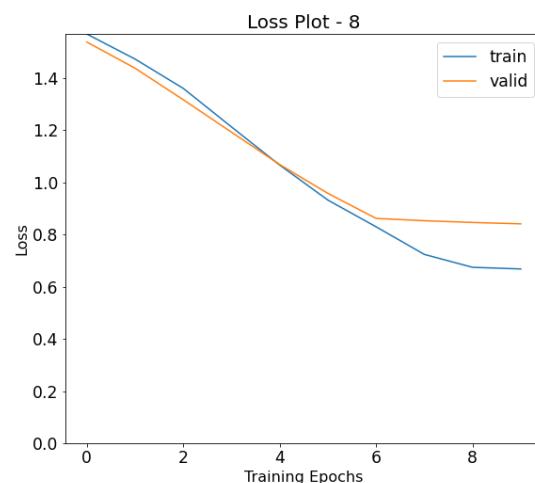
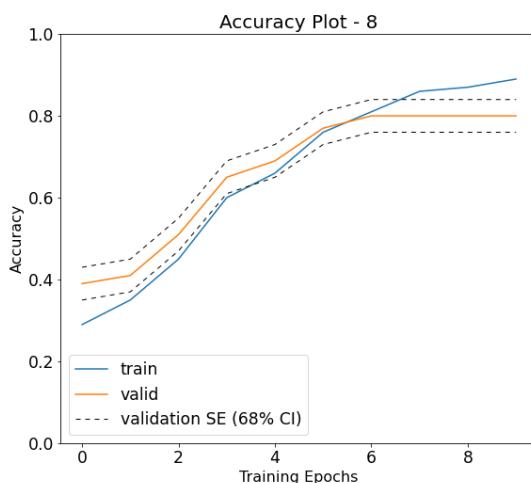
Statistics

Total Images	200
Train Images	100
Valid Images	100

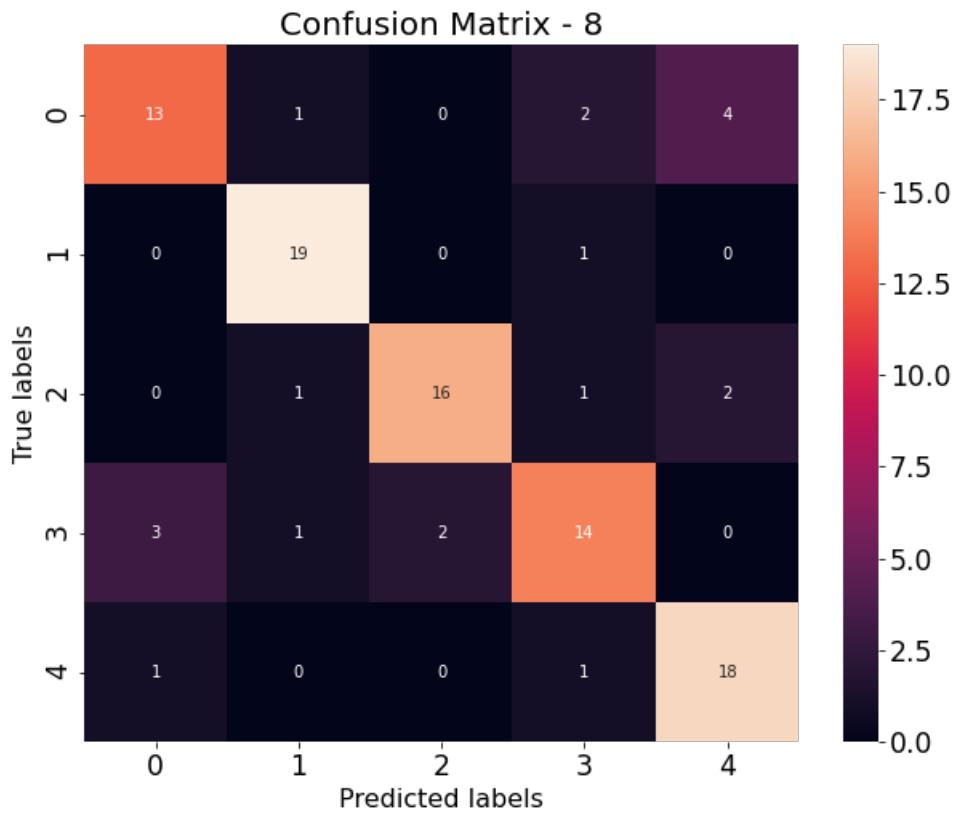
Categories

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

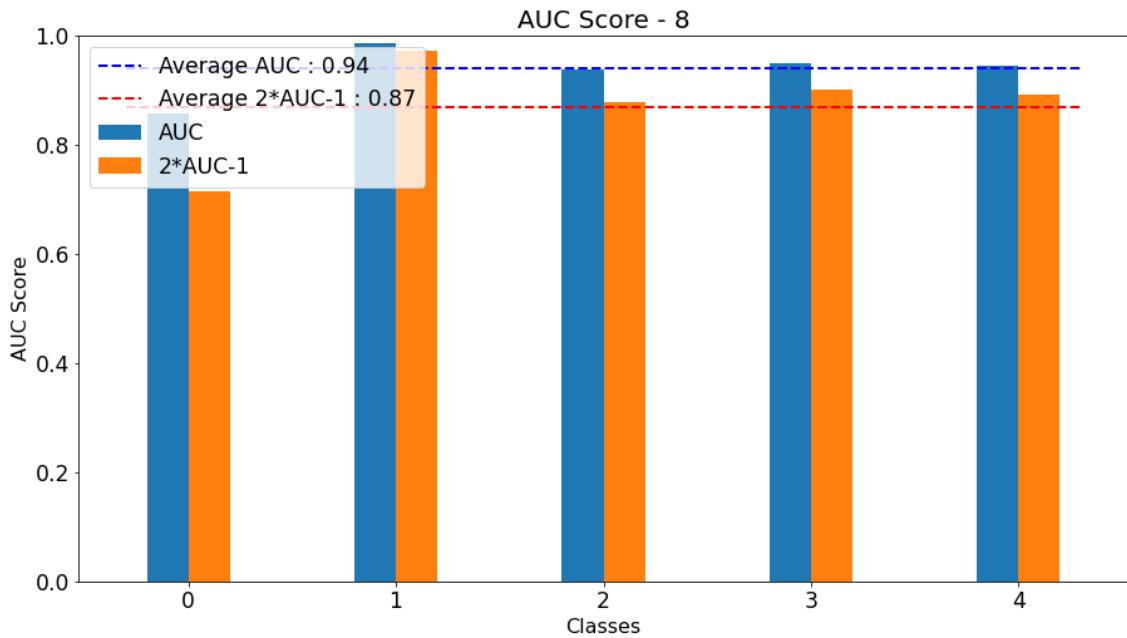
Accuracy Loss Plot



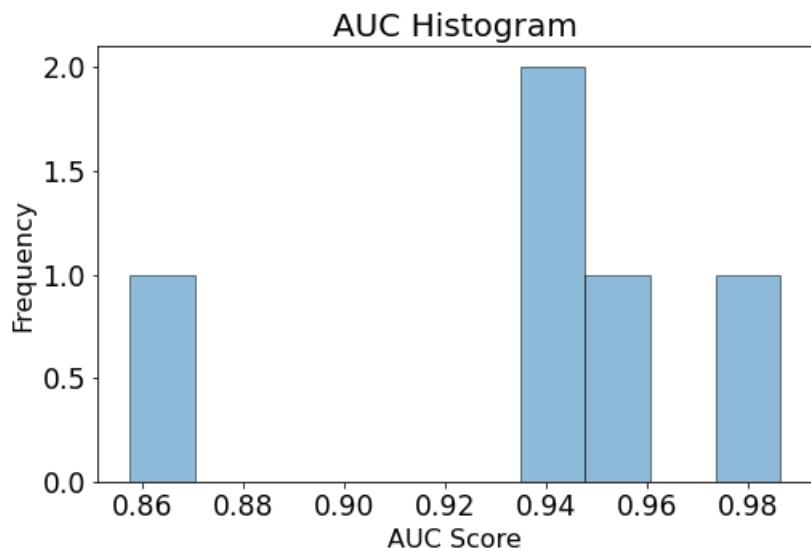
Confusion Matrix



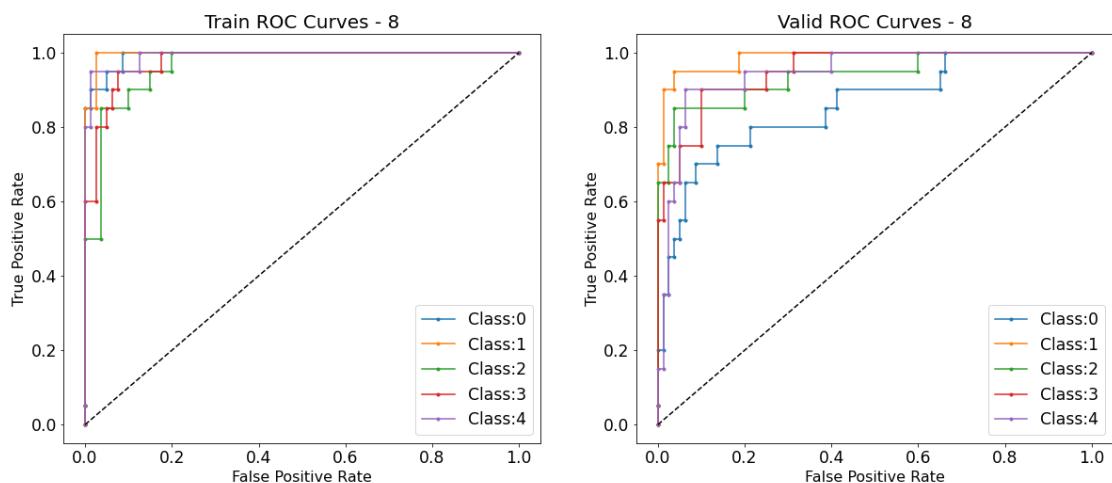
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 9

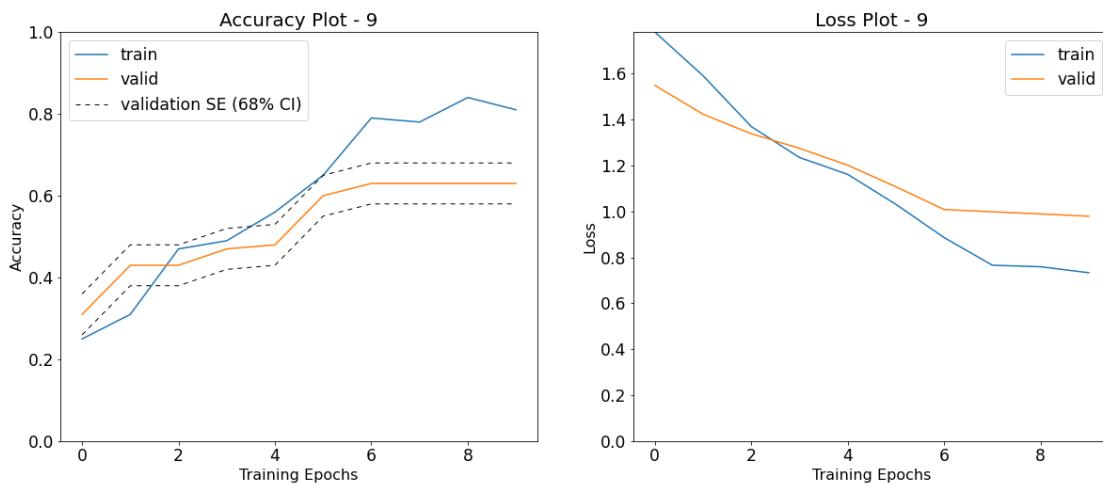
Statistics

Total Images	200
Train Images	100
Valid Images	100

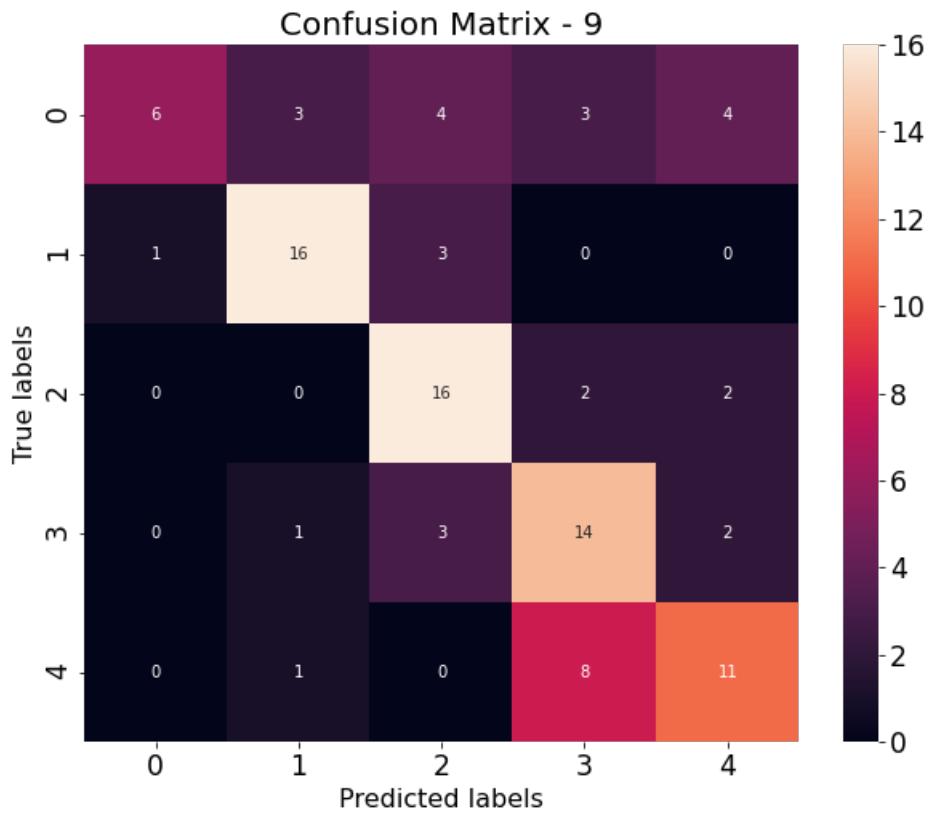
Categories

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

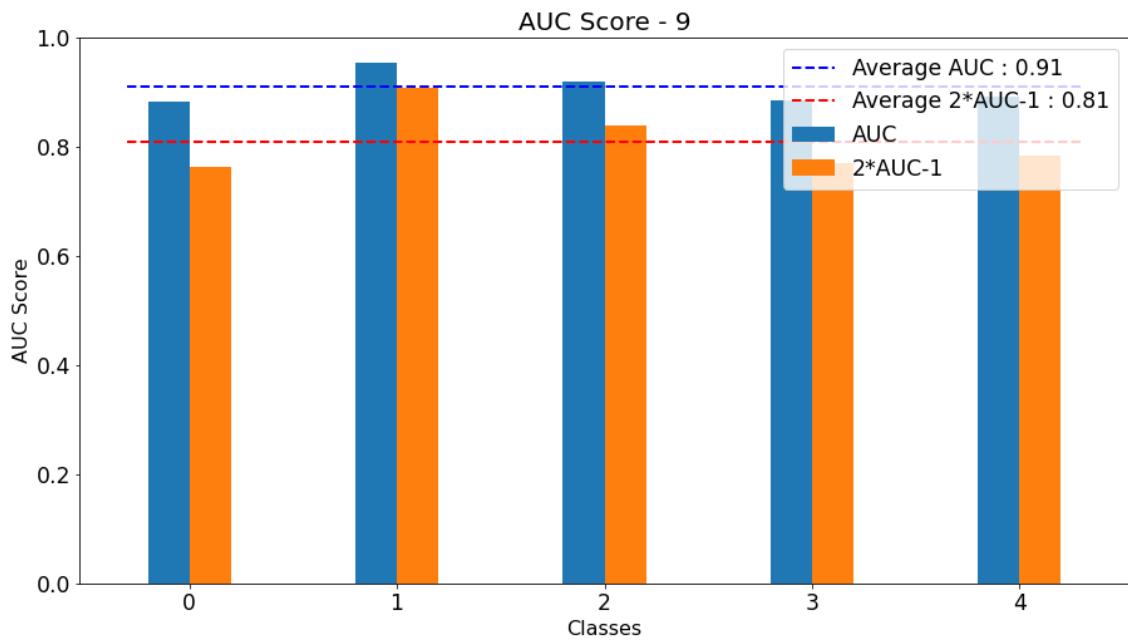
Accuracy Loss Plot



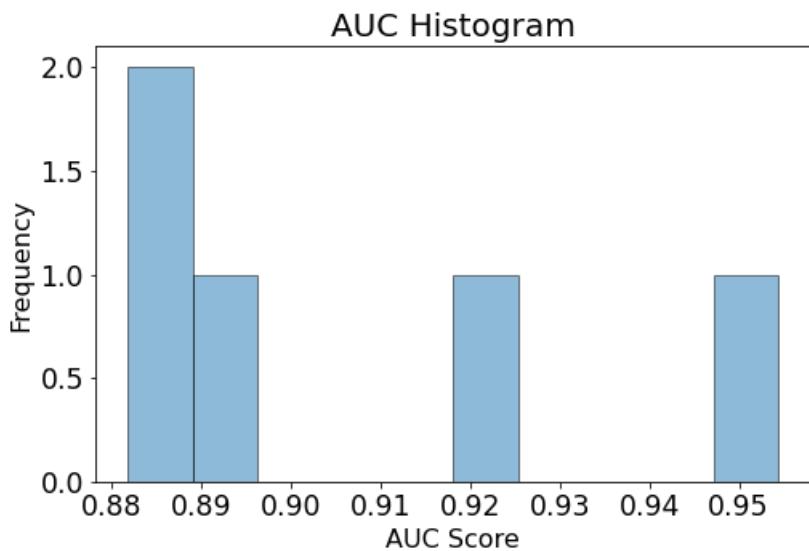
Confusion Matrix



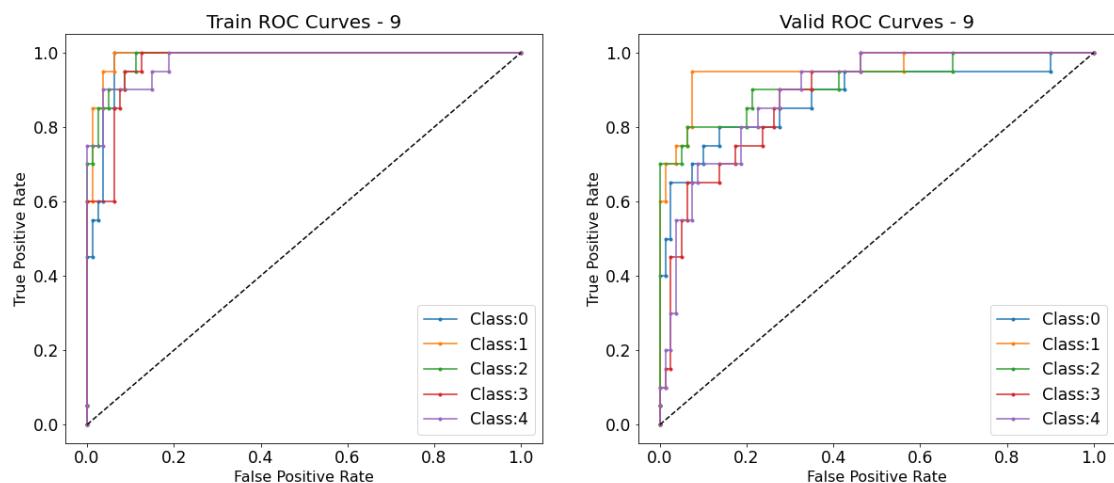
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 10

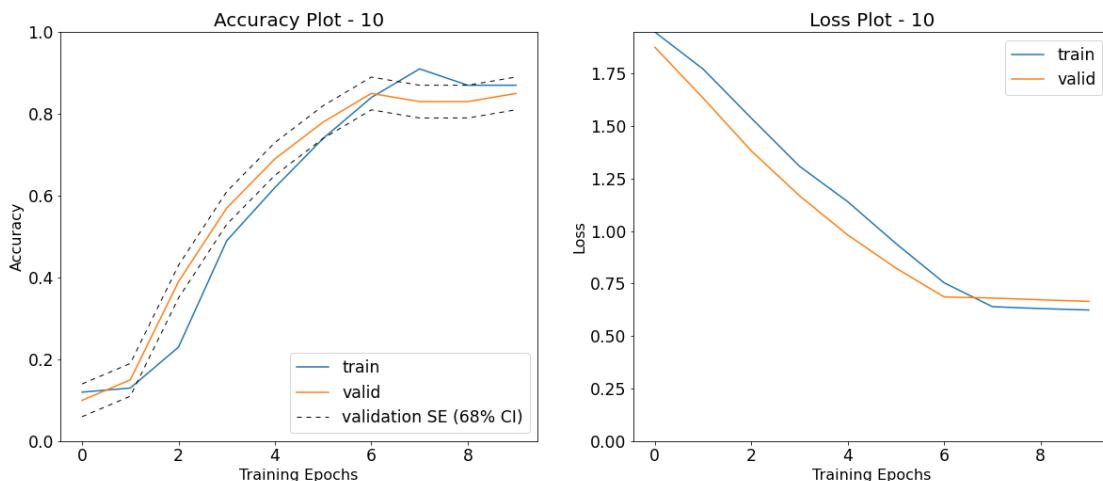
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 56s
Best Train Accuracy	0.91
Best Valid Accuracy	0.85
<hr/>	
AUC	0.97
2*AUC-1	0.94
Standard Error	0.04

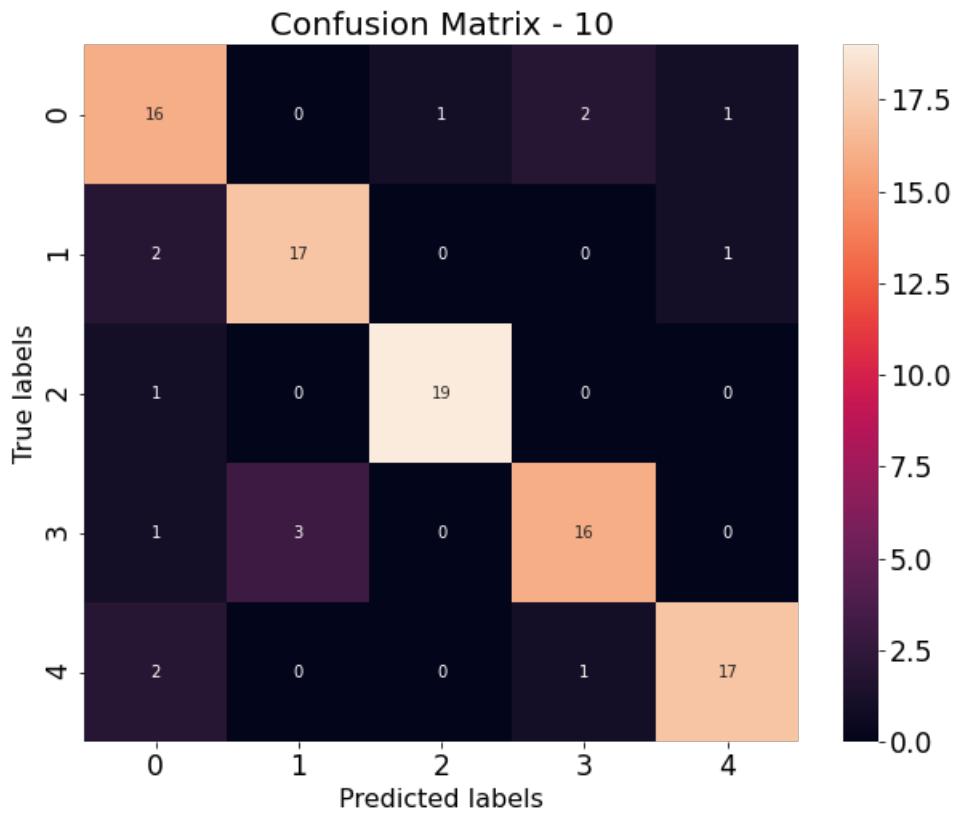
Categories

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

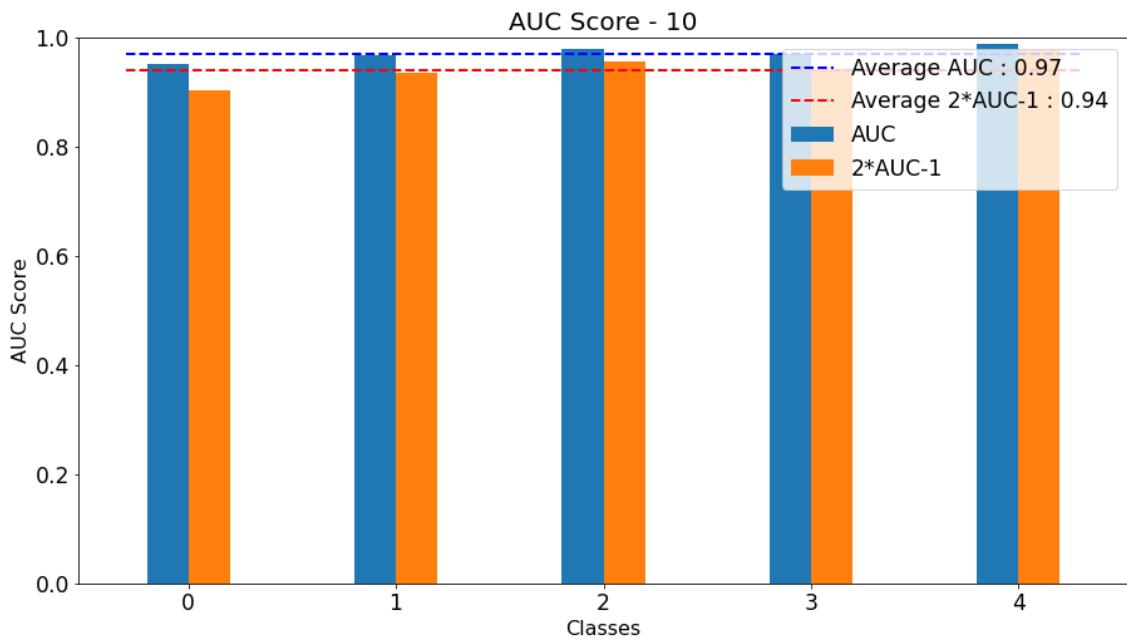
Accuracy Loss Plot



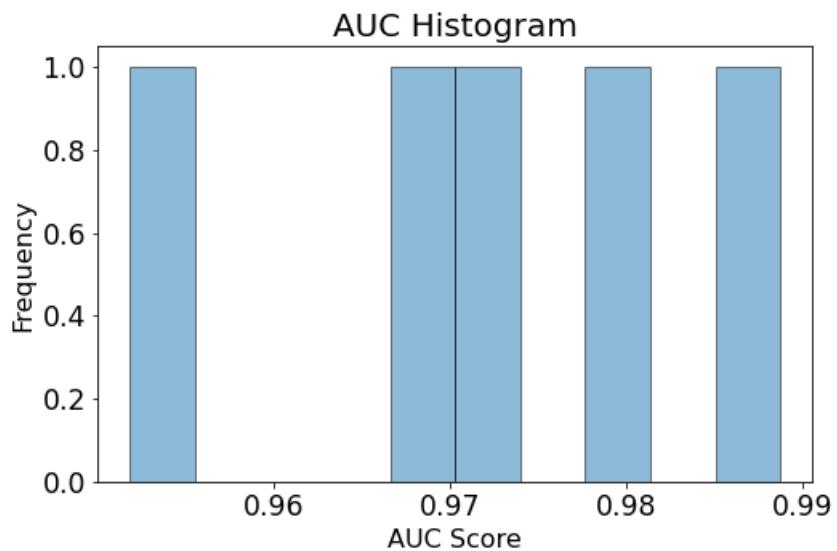
Confusion Matrix



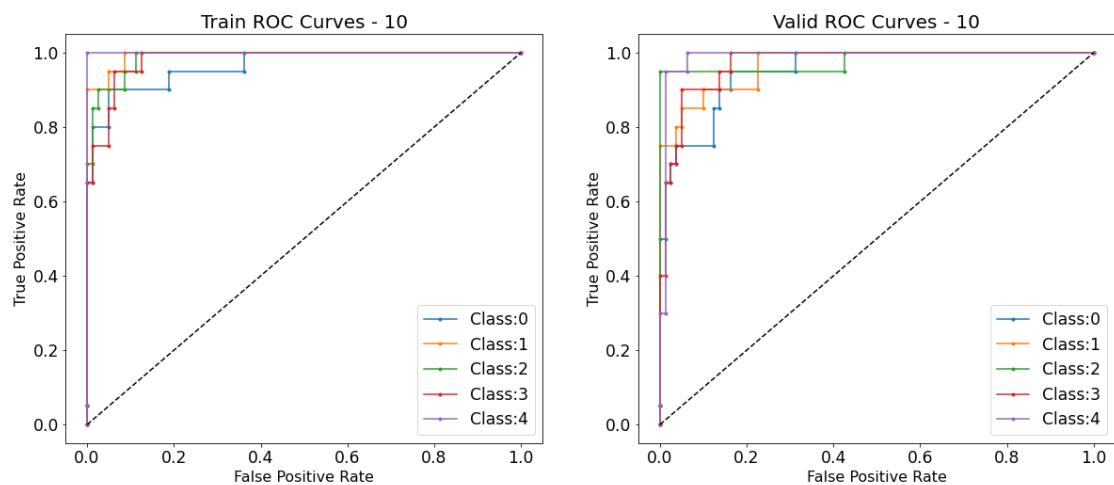
AUC



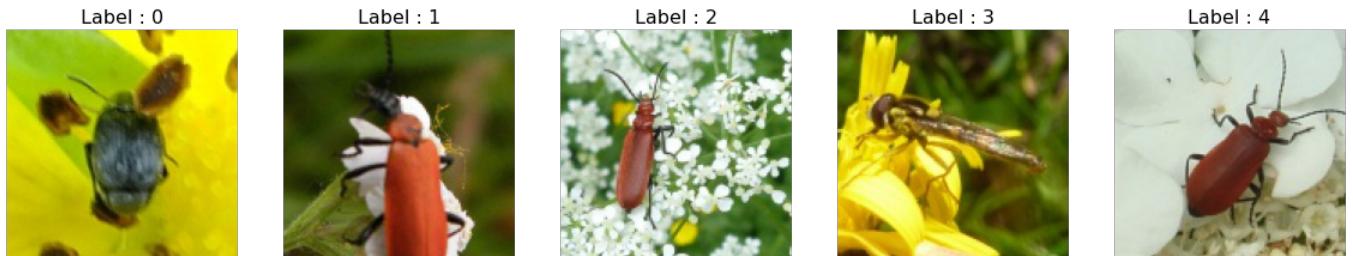
AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 11

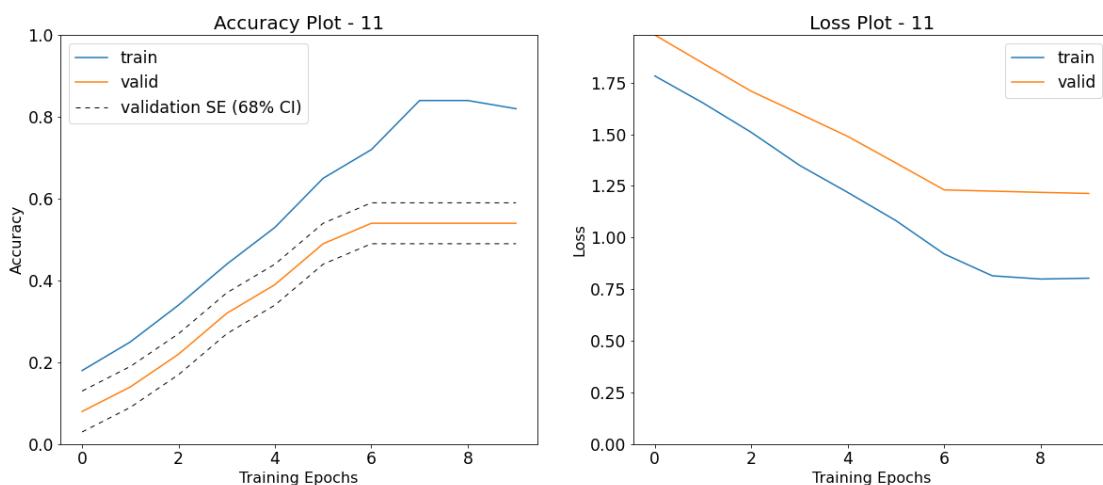
Statistics

Total Images	200
Train Images	100
Valid Images	100

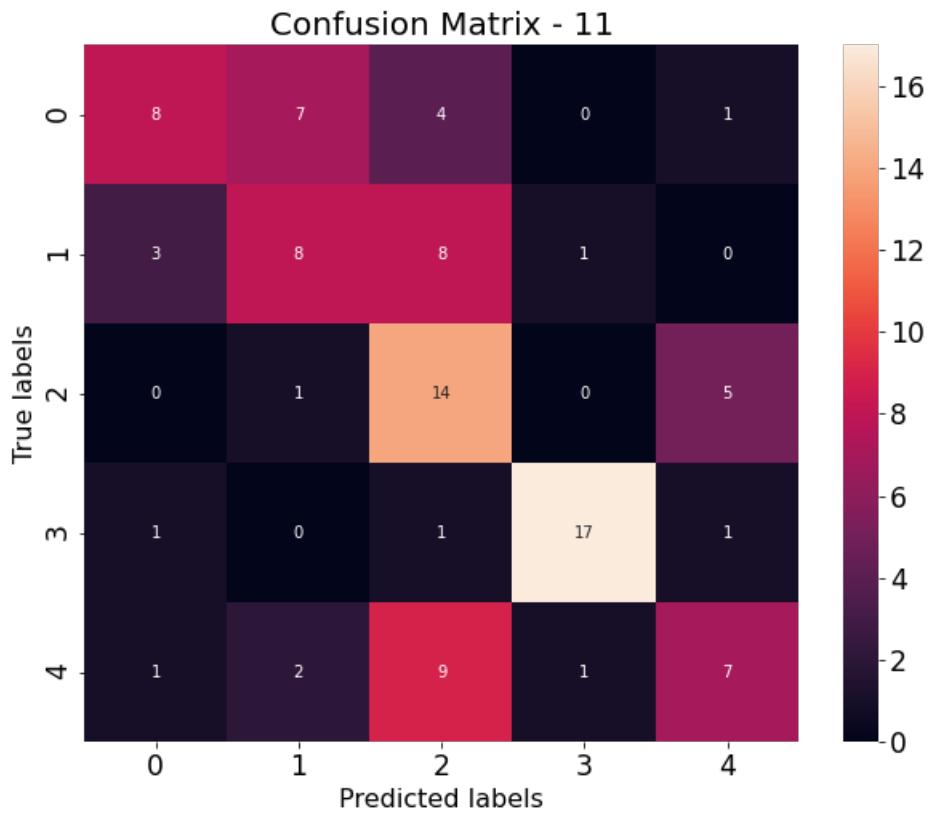
Categories

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

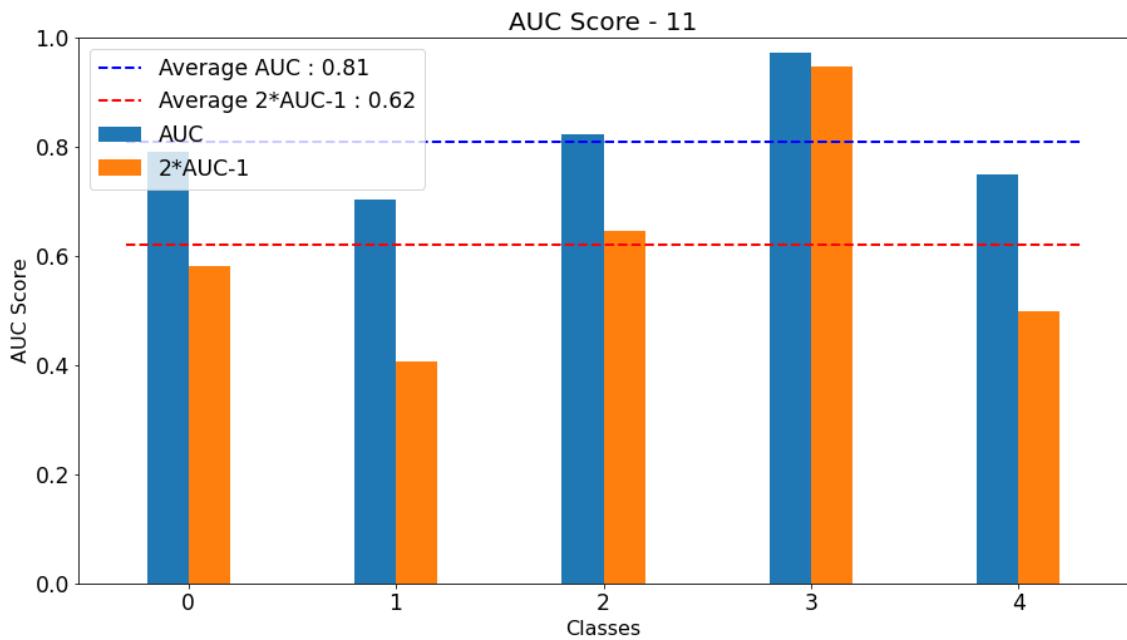
Accuracy Loss Plot



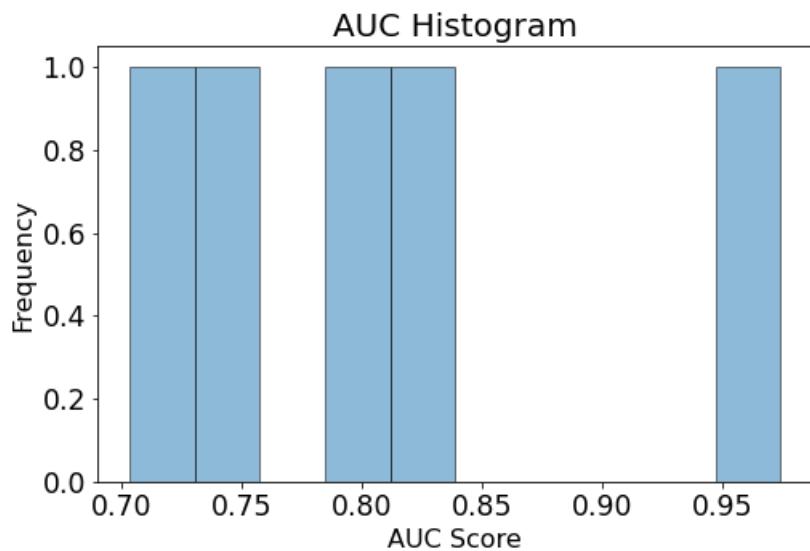
Confusion Matrix



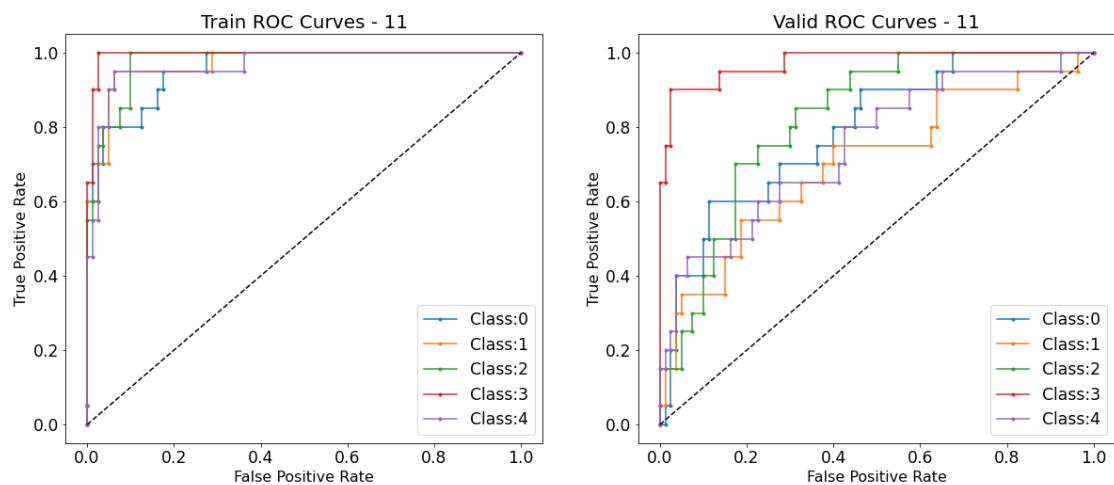
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 12

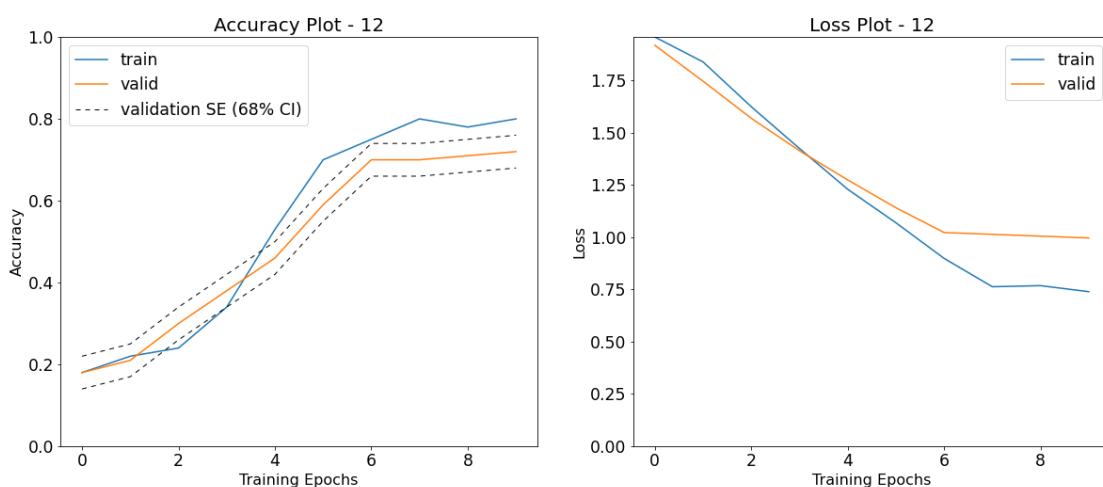
Statistics

Total Images	200
Train Images	100
Valid Images	100

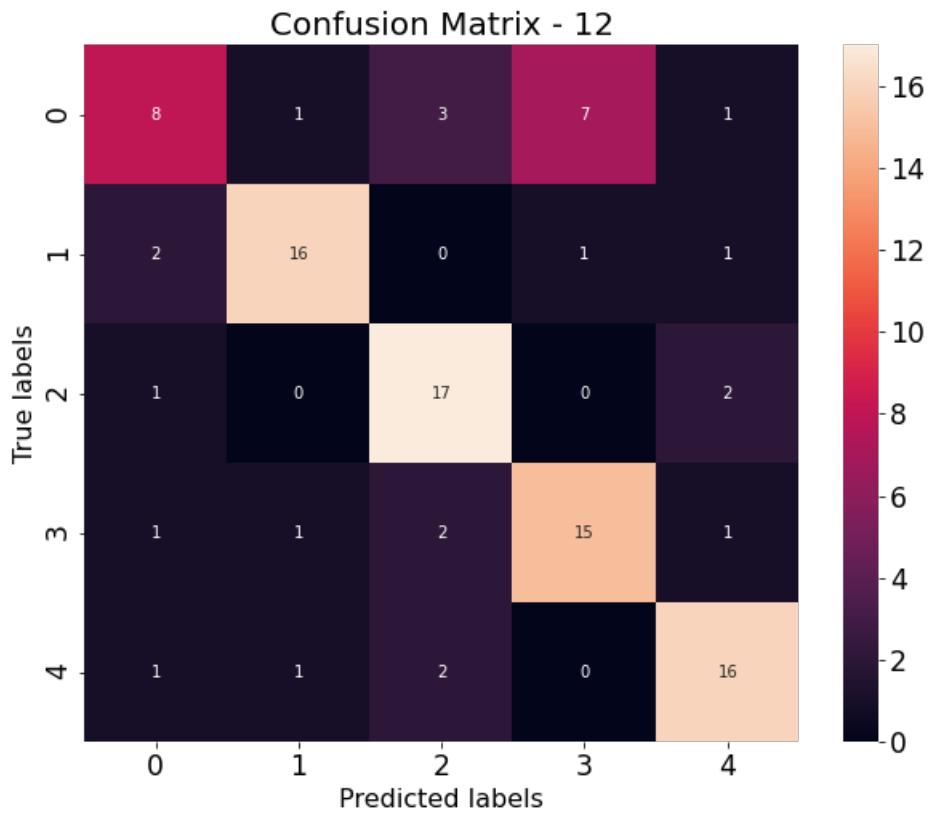
Categories

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

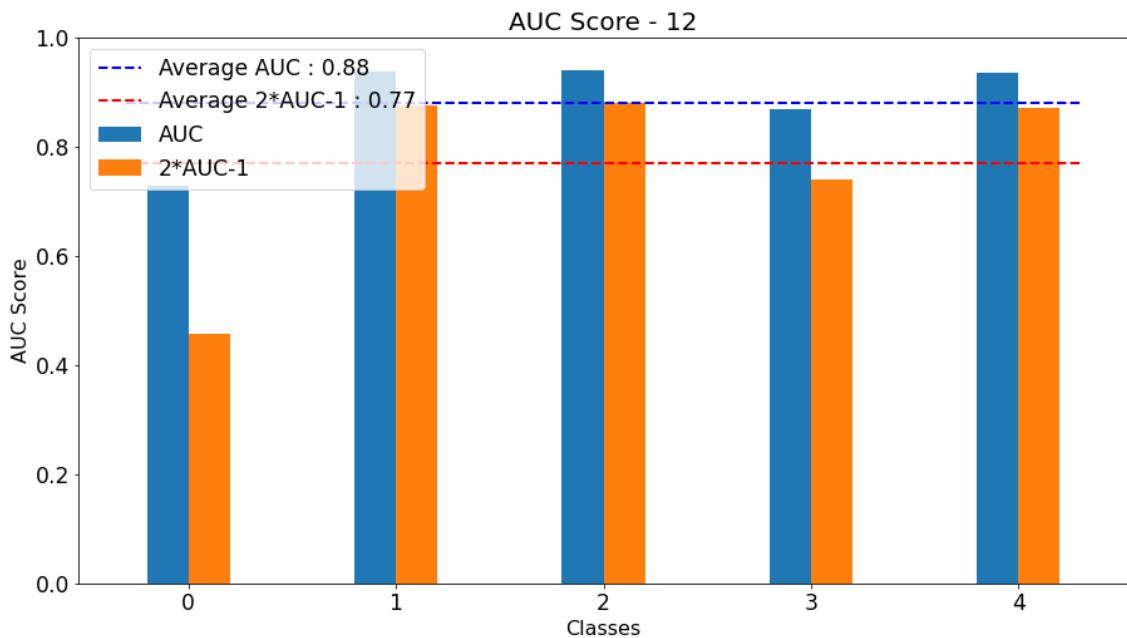
Accuracy Loss Plot



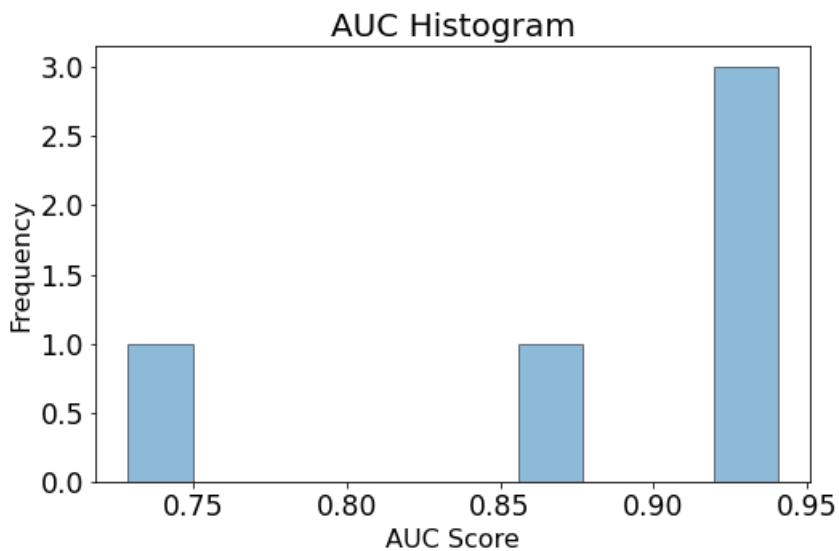
Confusion Matrix



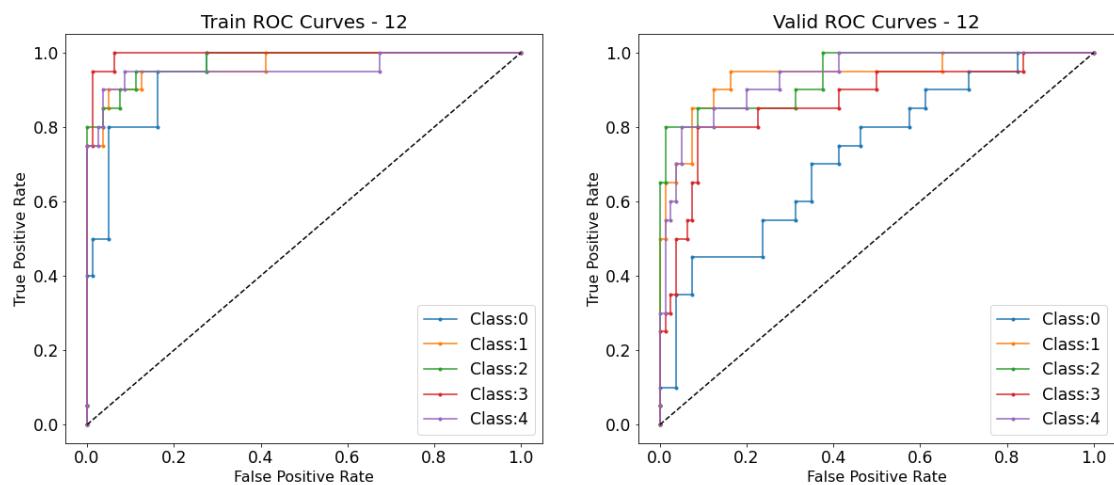
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 13

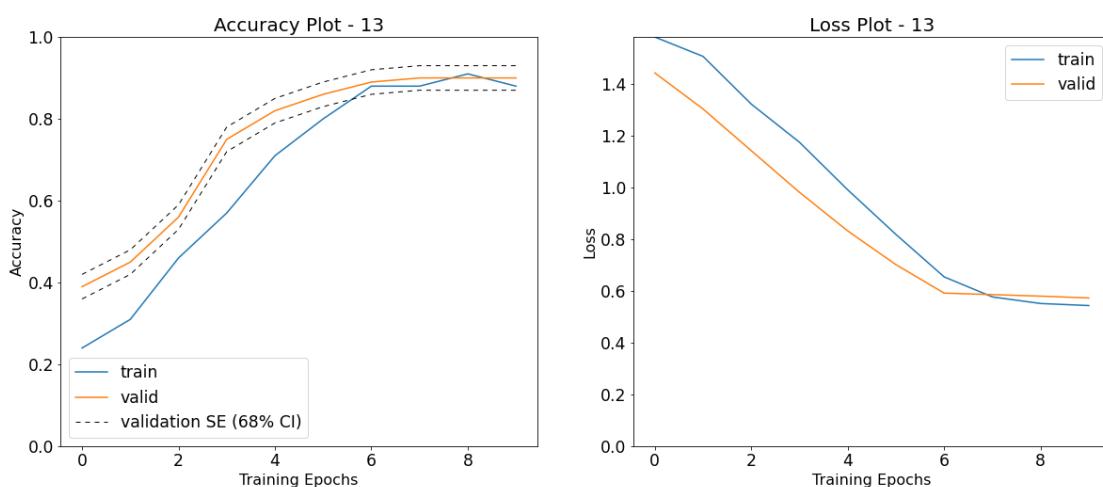
Statistics

Total Images	200
Train Images	100
Valid Images	100

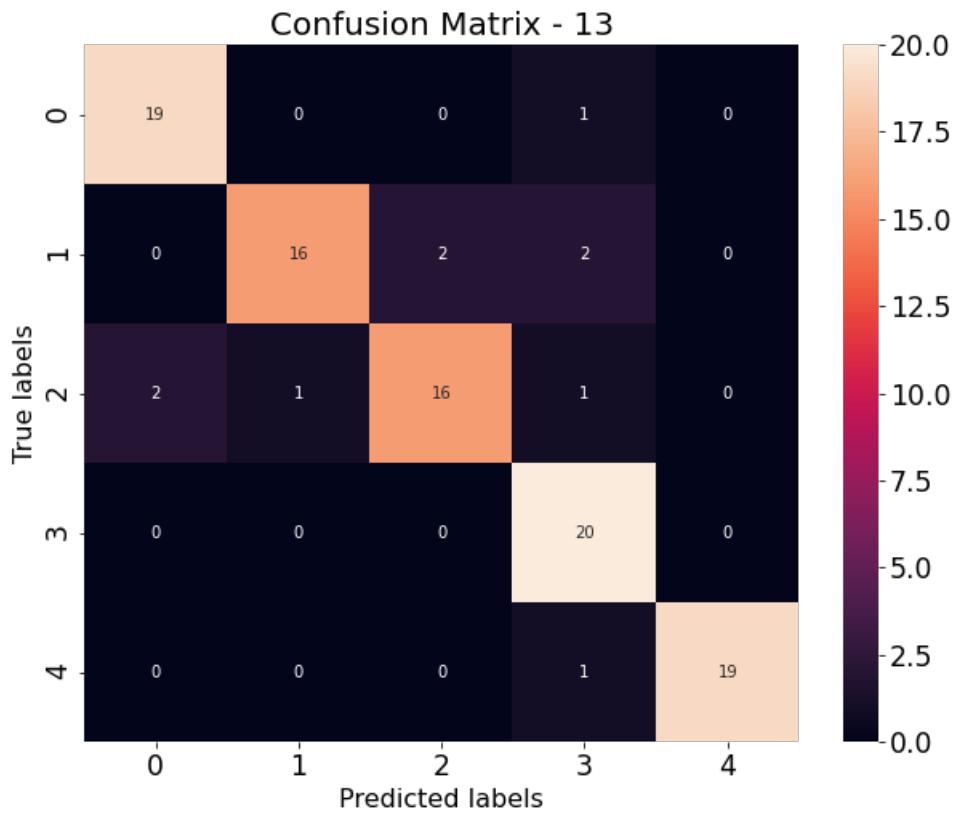
Categories

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

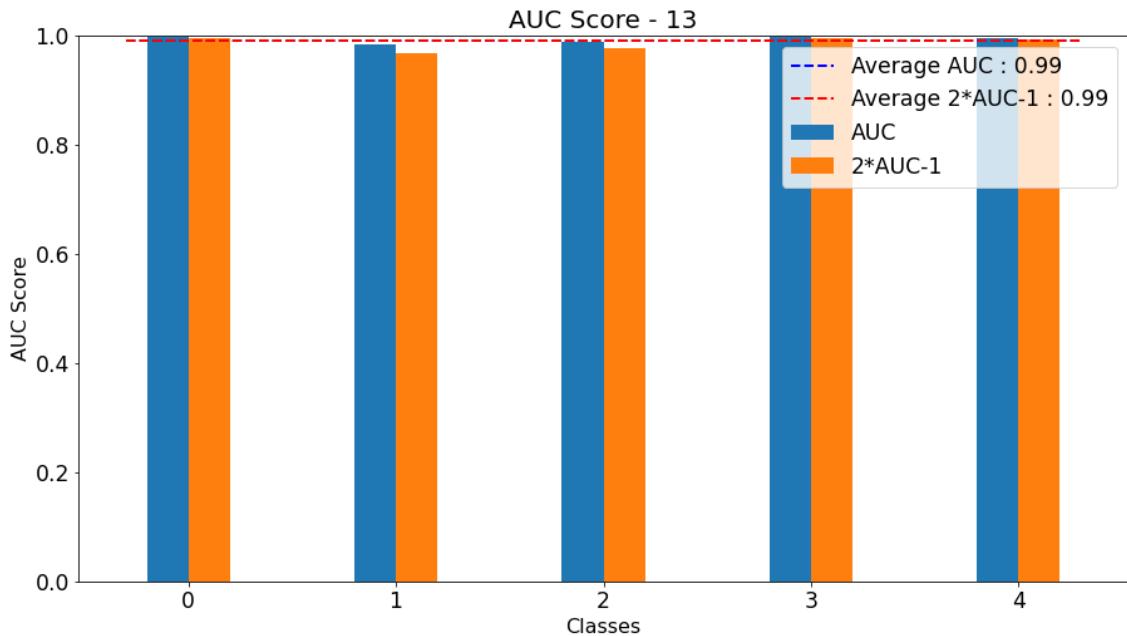
Accuracy Loss Plot



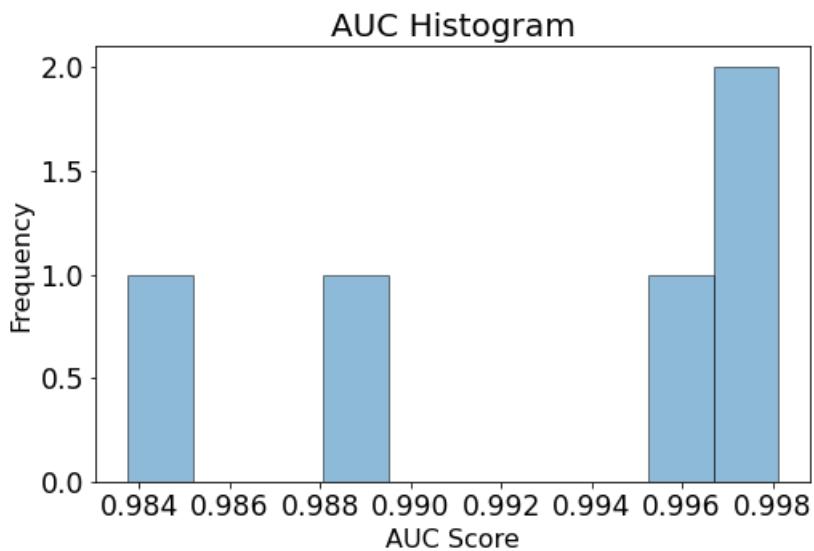
Confusion Matrix



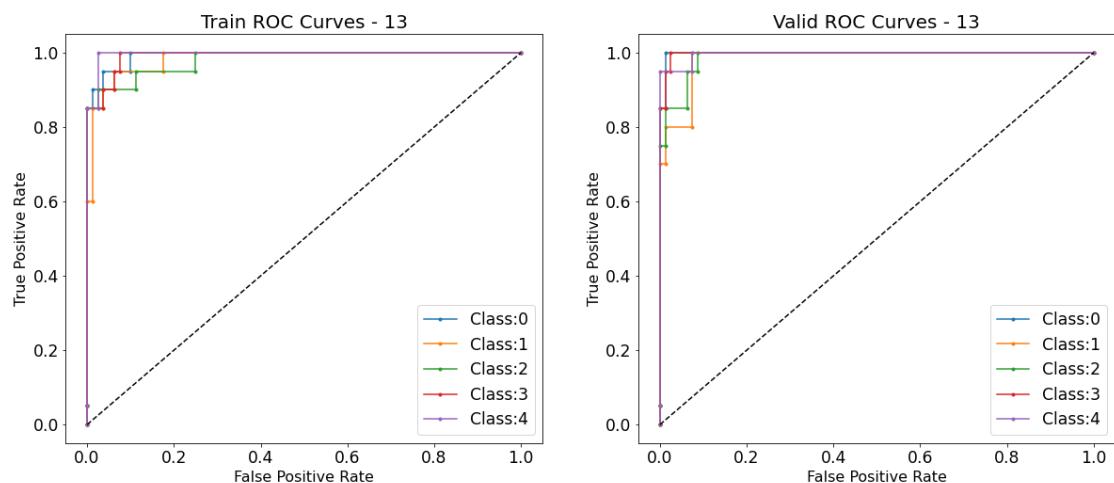
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 14

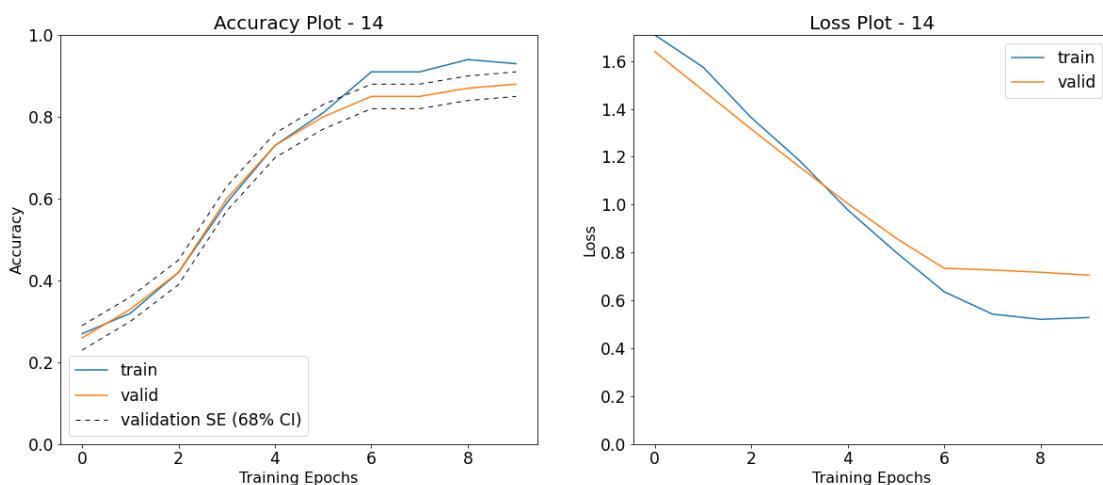
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 57s
Best Train Accuracy	0.94
Best Valid Accuracy	0.88
<hr/>	
AUC	0.97
2*AUC-1	0.94
Standard Error	0.03

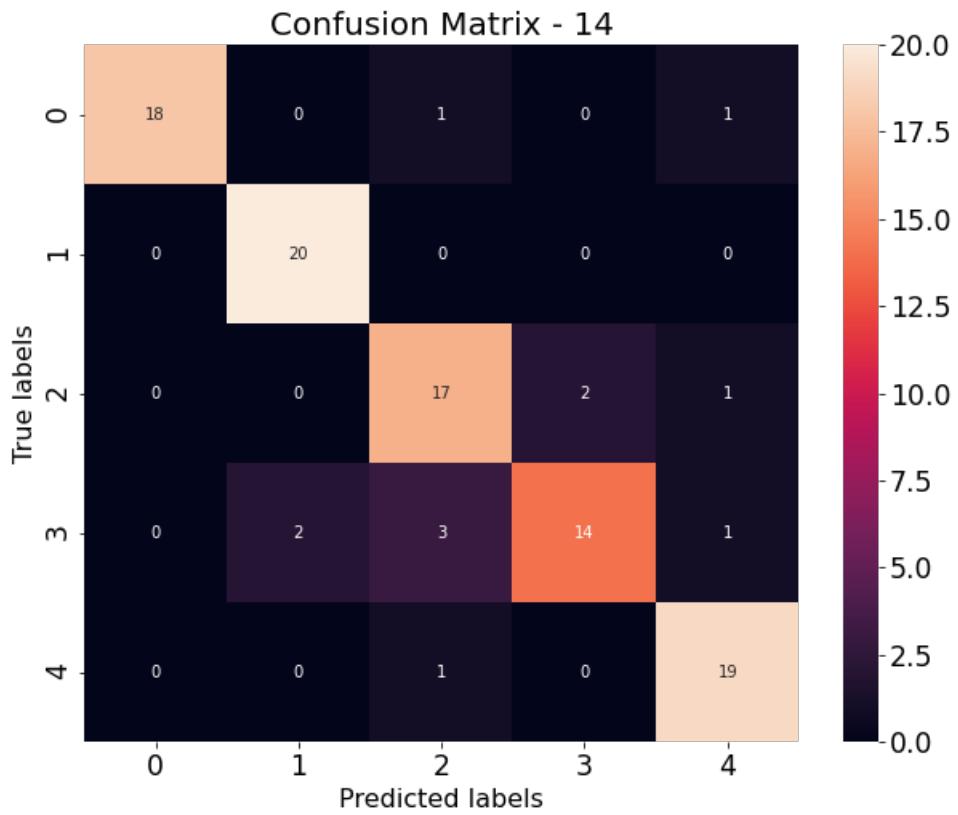
Categories

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

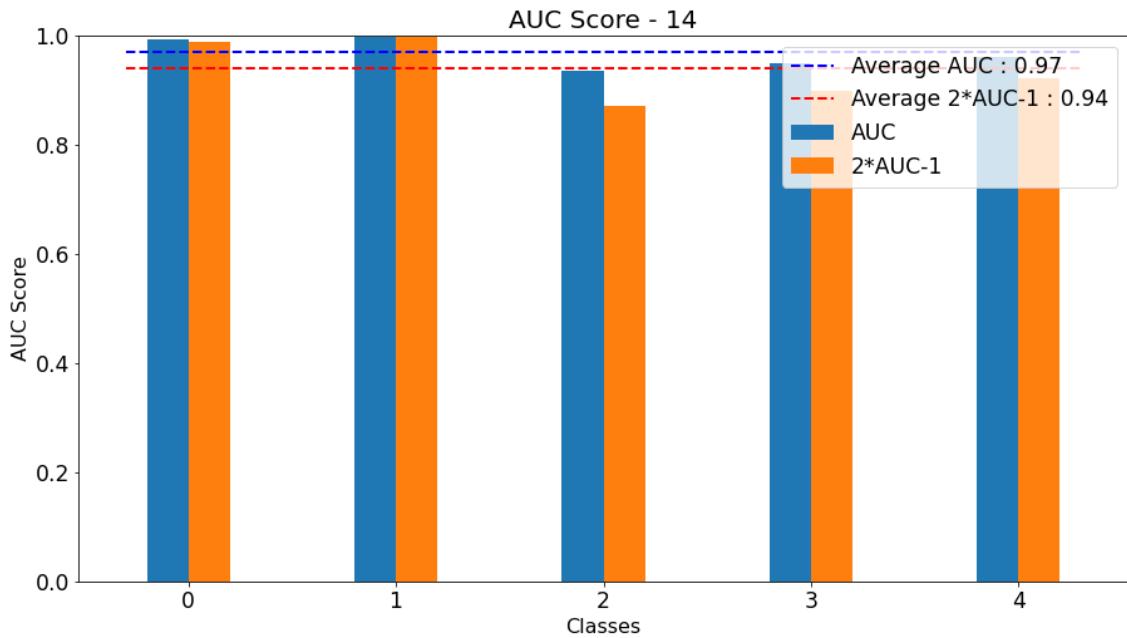
Accuracy Loss Plot



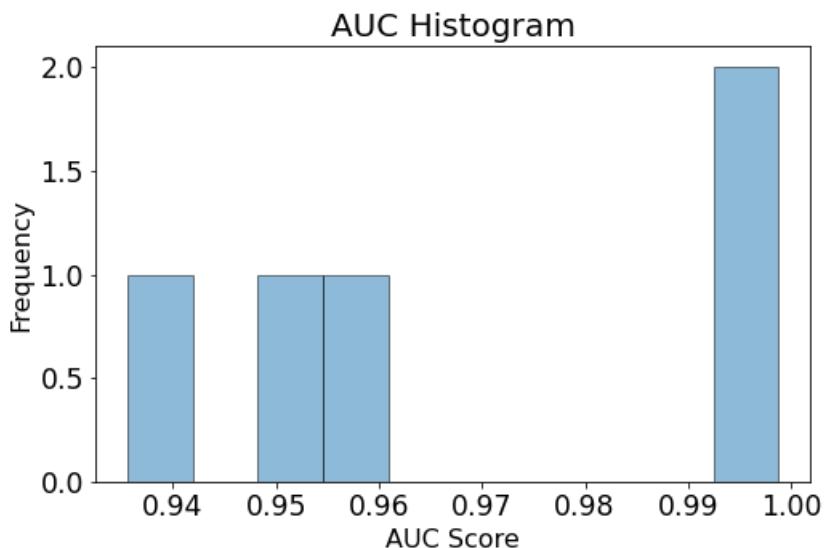
Confusion Matrix



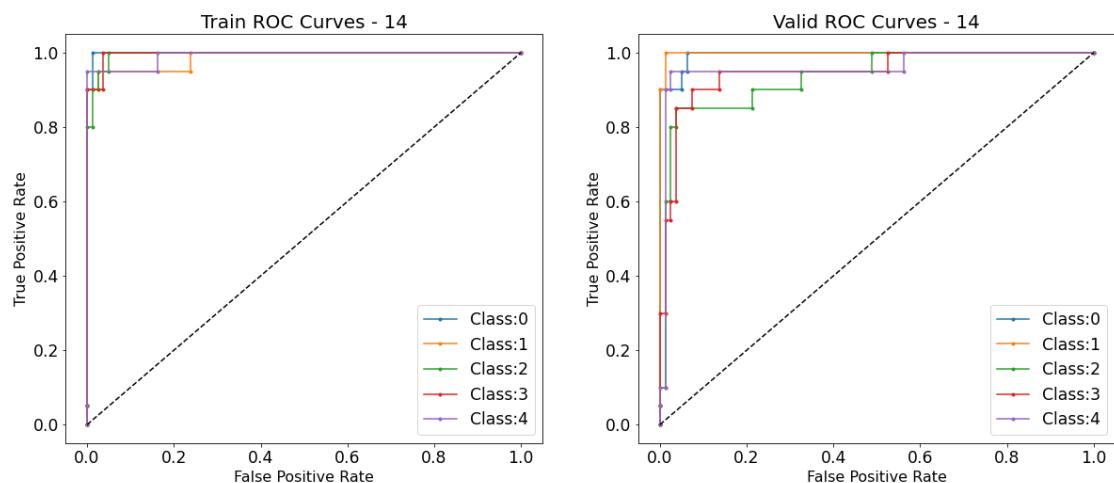
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 15

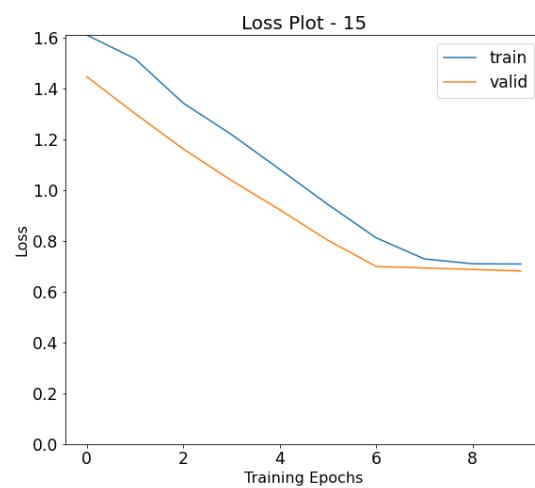
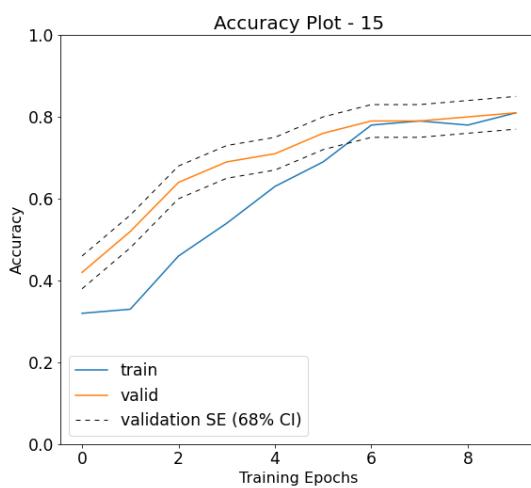
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 56s
Best Train Accuracy	0.81
Best Valid Accuracy	0.81
<hr/>	
AUC	0.97
2*AUC-1	0.94
Standard Error	0.04

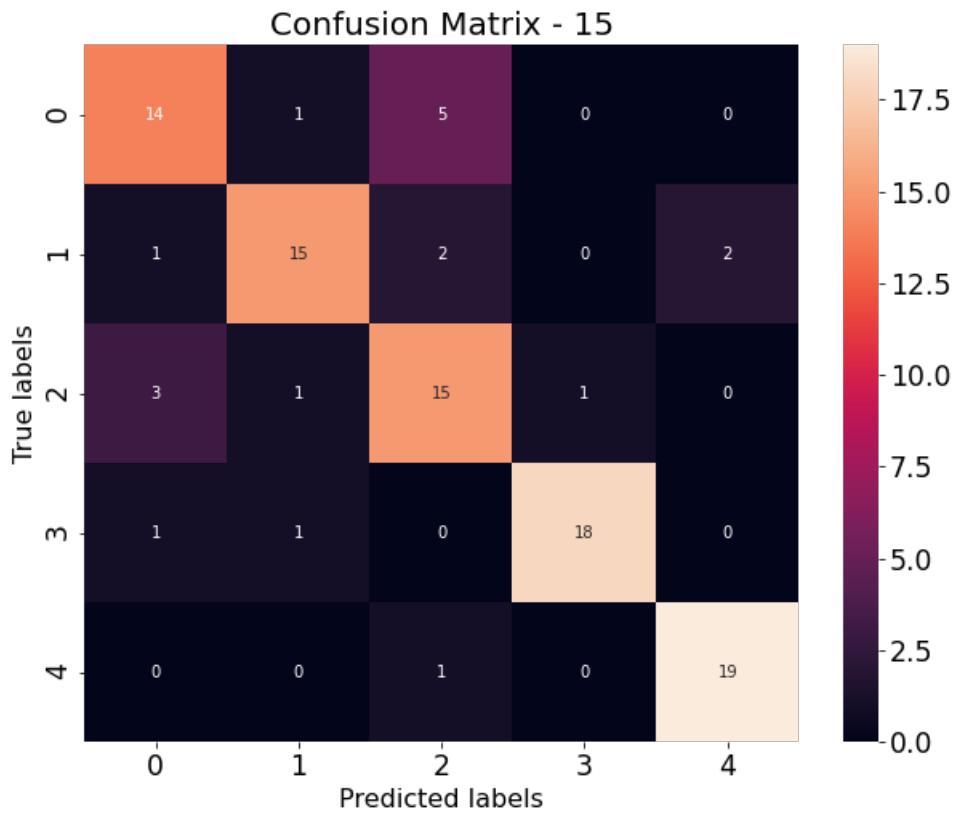
Categories

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

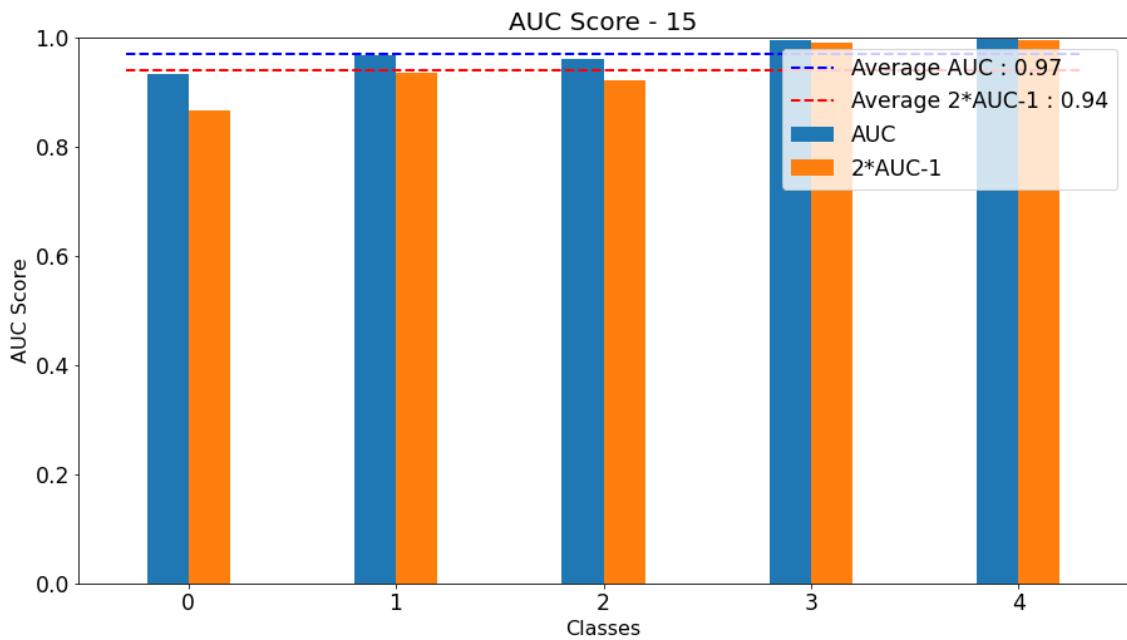
Accuracy Loss Plot



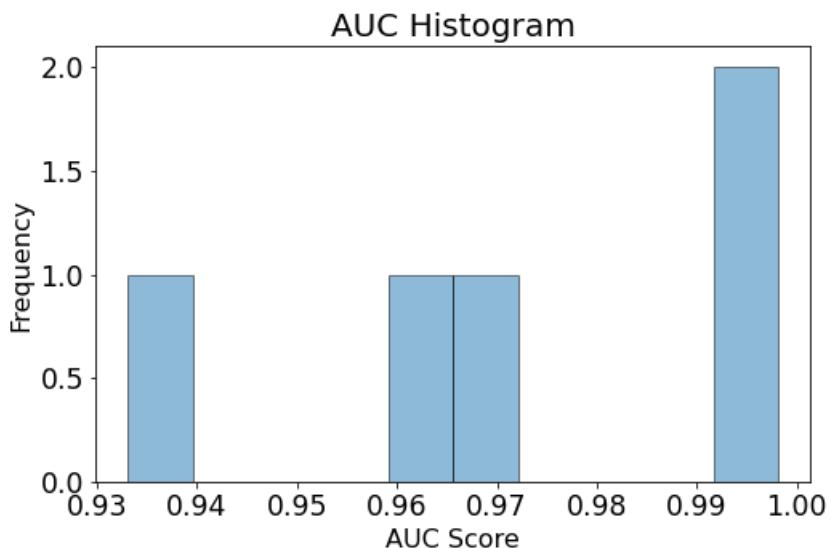
Confusion Matrix



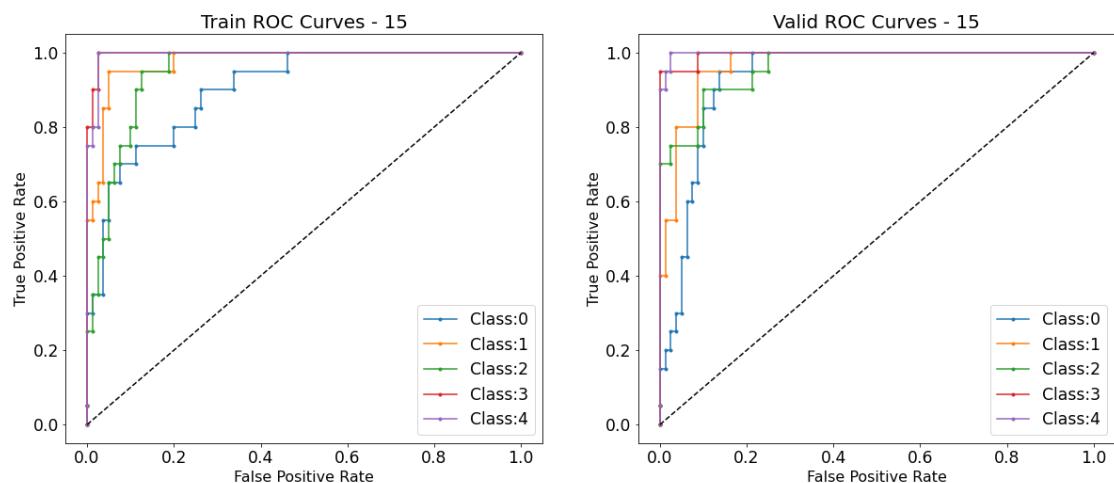
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 16

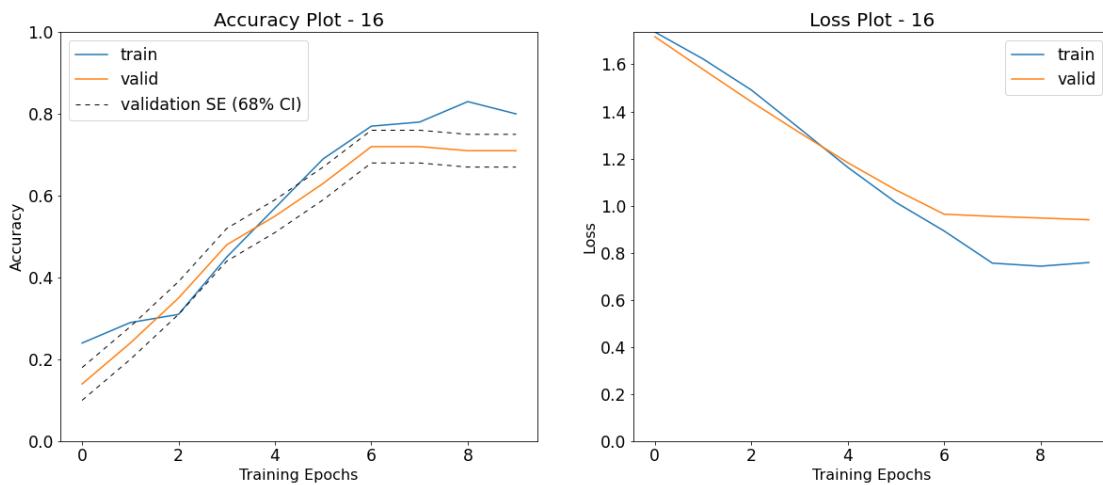
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 56s
Best Train Accuracy	0.83
Best Valid Accuracy	0.72
<hr/>	
AUC	0.9
2*AUC-1	0.8
Standard Error	0.04

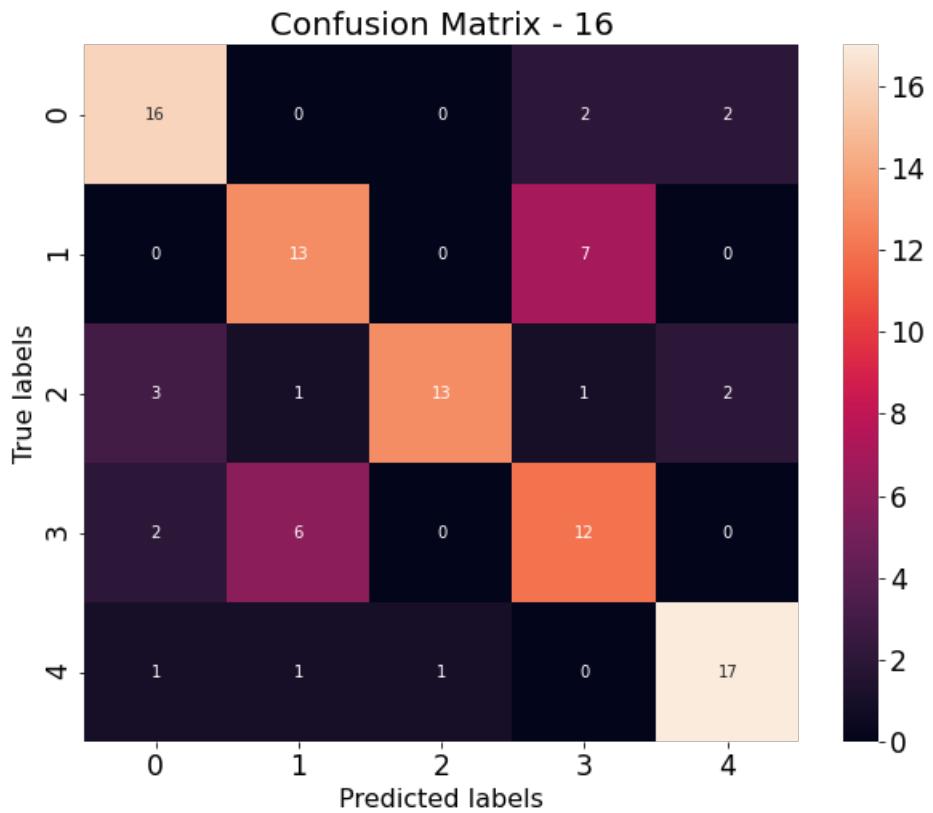
Categories

Apidae
Les Chloropides jaunes à l'âme murs enflammés (Meromyza)
Les Hennetons (Anisoplia, Phyllopertha)
Les Stratiomes verts (Odontomyia, Oplodontha)
Meloidae

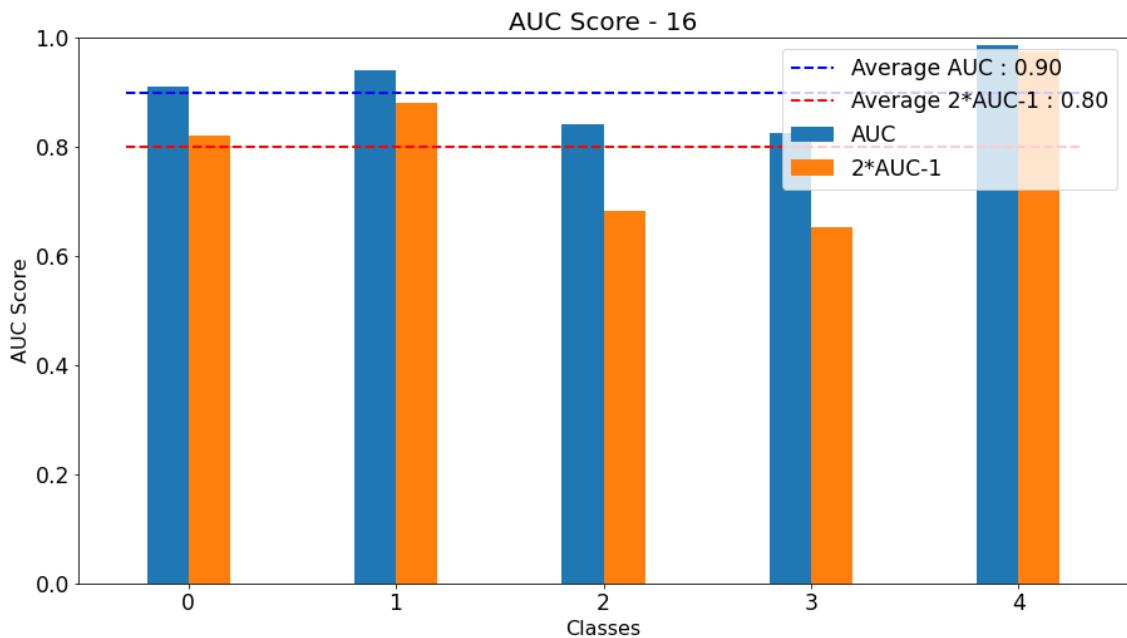
Accuracy Loss Plot



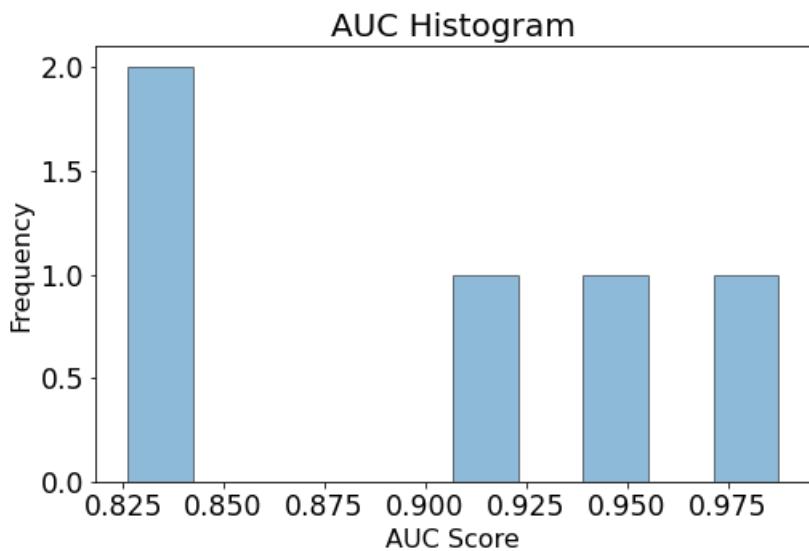
Confusion Matrix



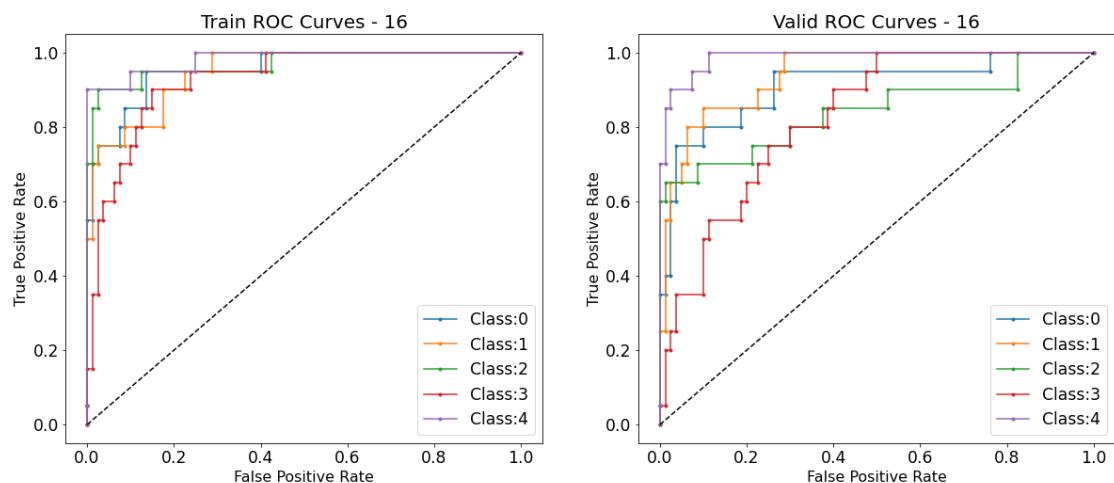
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 17

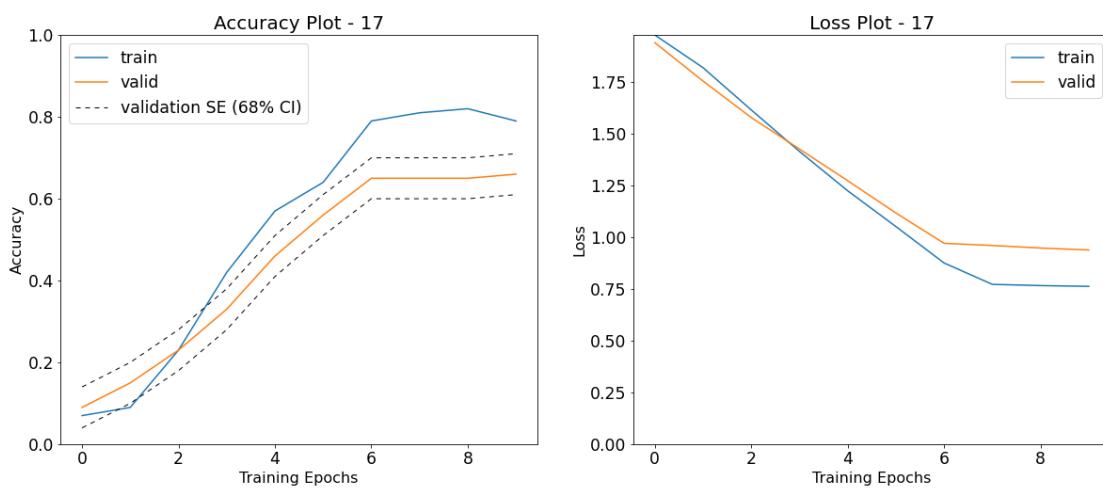
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 57s
Best Train Accuracy	0.82
Best Valid Accuracy	0.66
<hr/>	
AUC	0.9
2*AUC-1	0.79
Standard Error	0.05

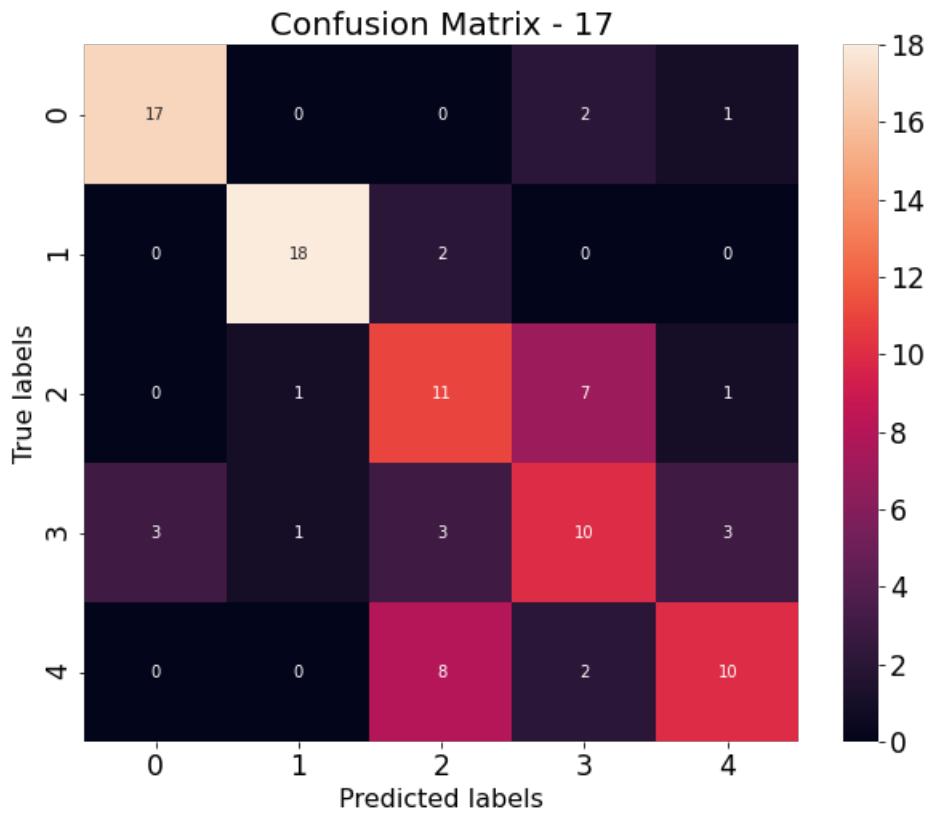
Categories

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

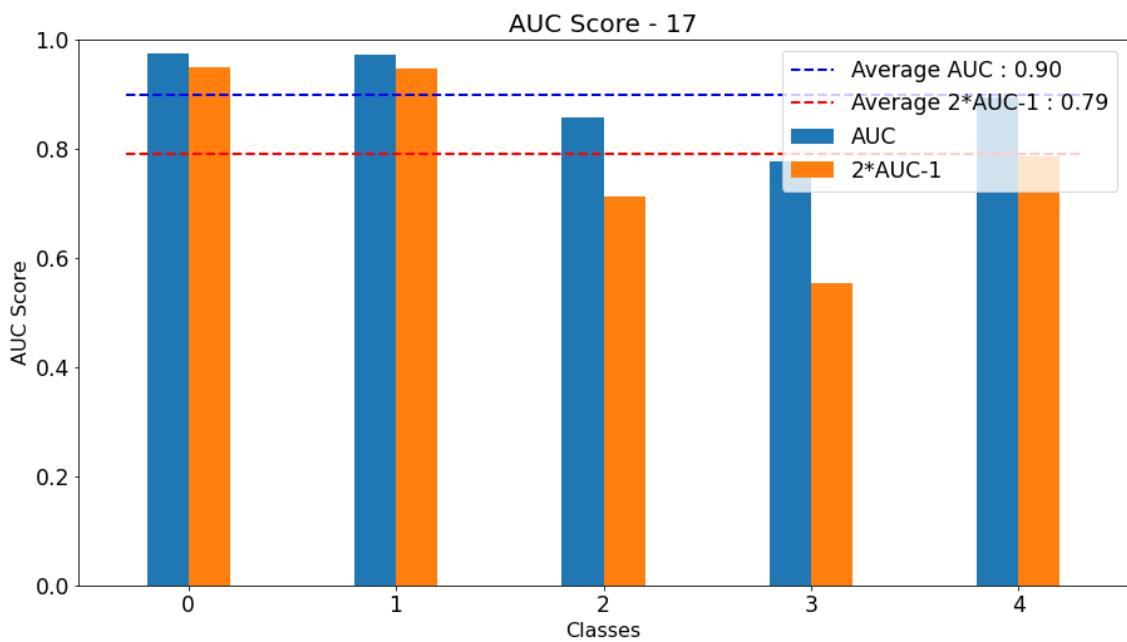
Accuracy Loss Plot



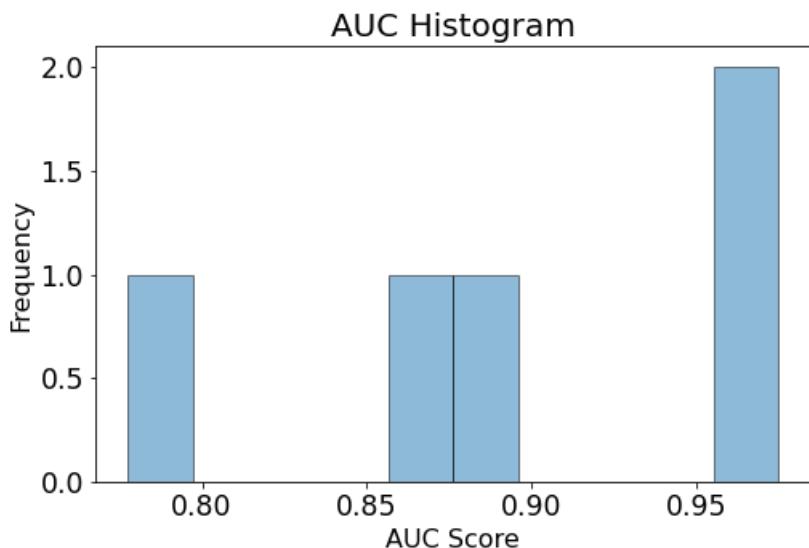
Confusion Matrix



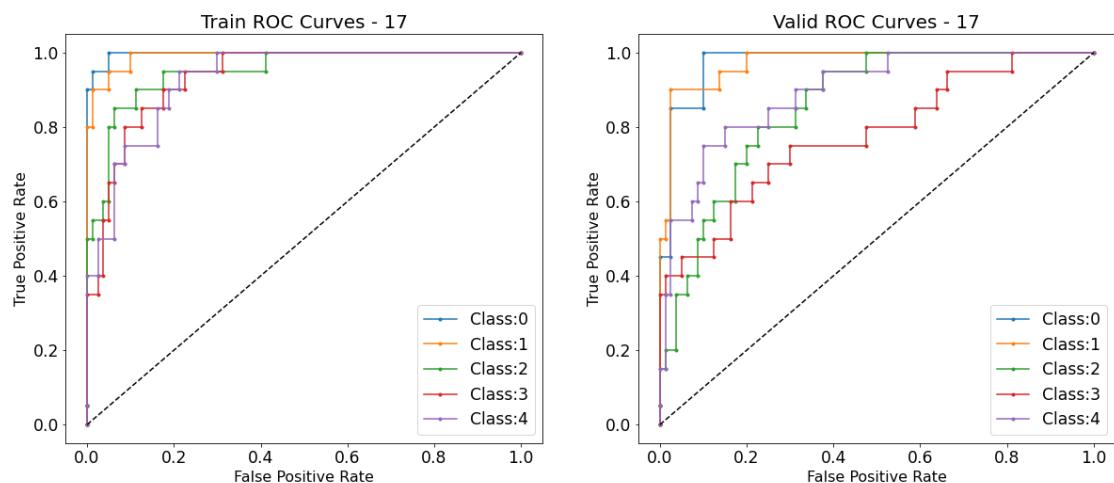
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 18

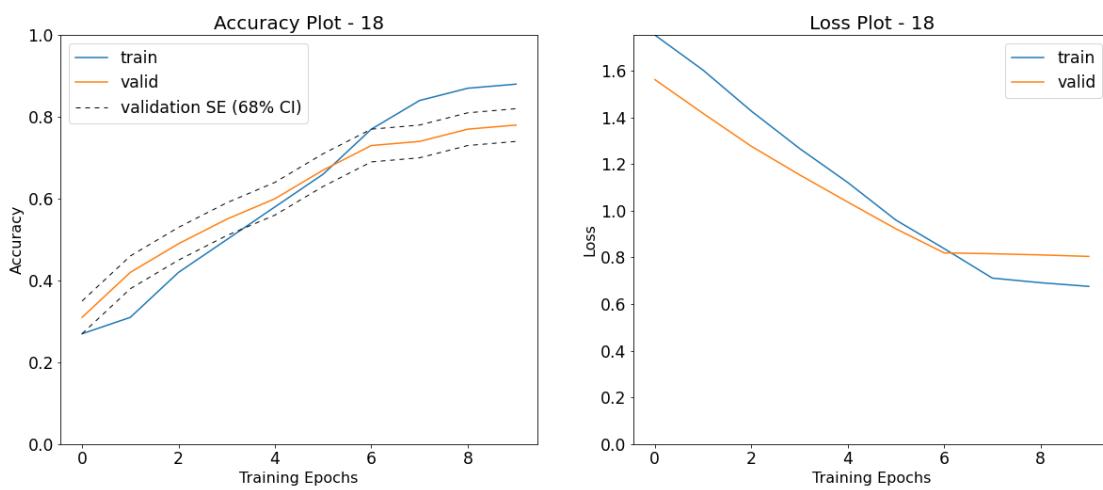
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 56s
Best Train Accuracy	0.88
Best Valid Accuracy	0.78
<hr/>	
AUC	0.94
2*AUC-1	0.89
Standard Error	0.04

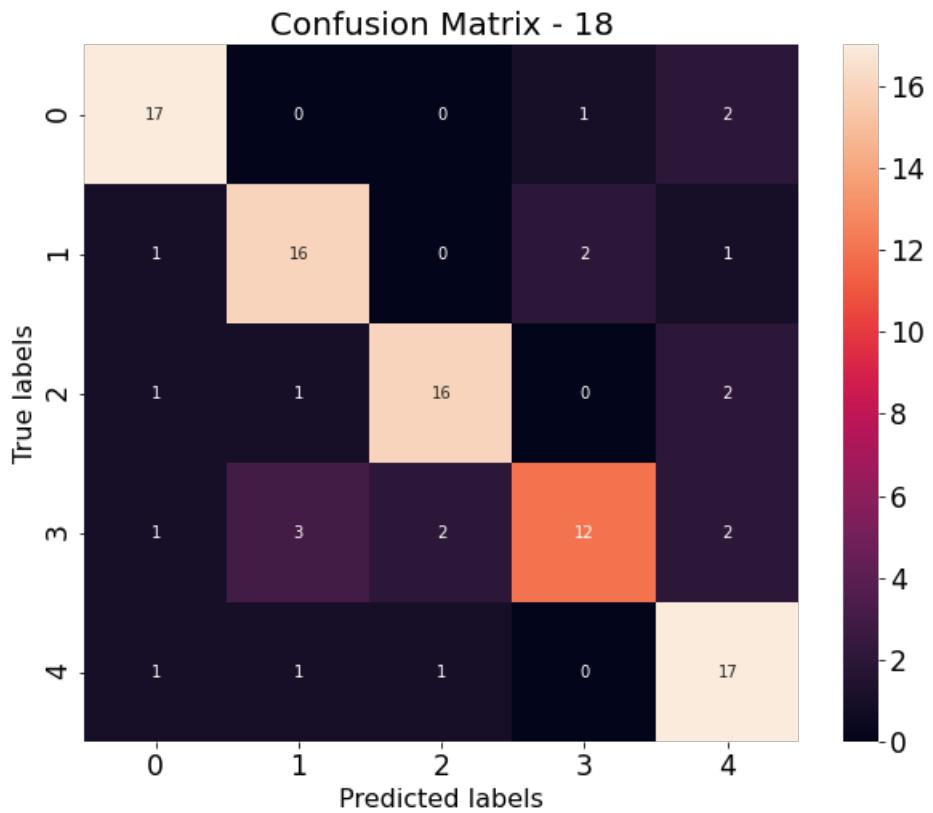
Categories

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

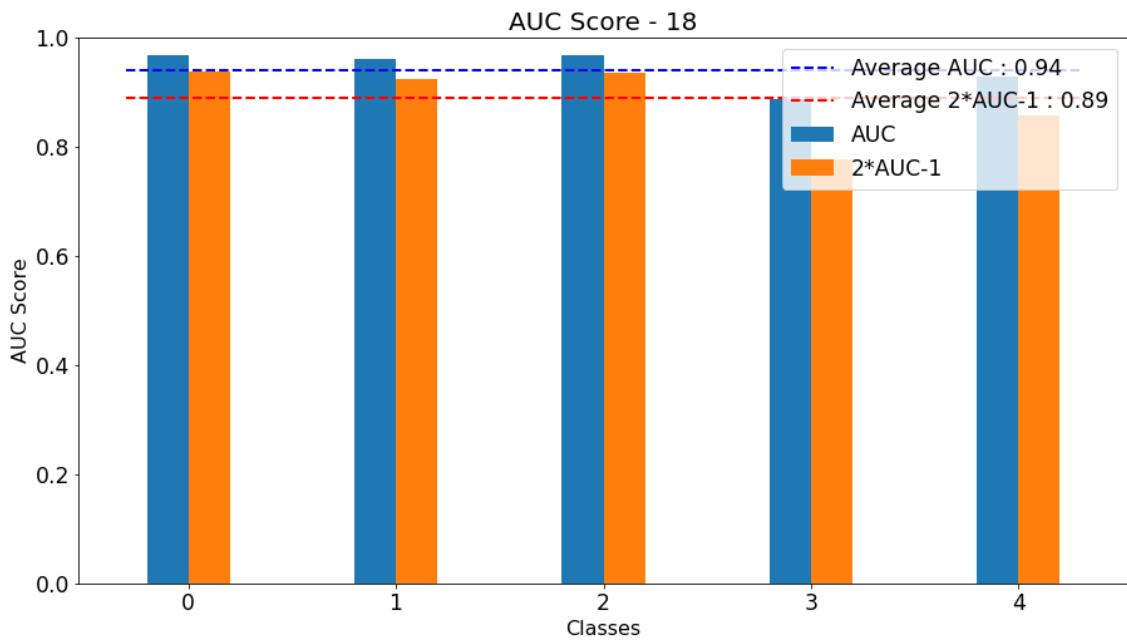
Accuracy Loss Plot



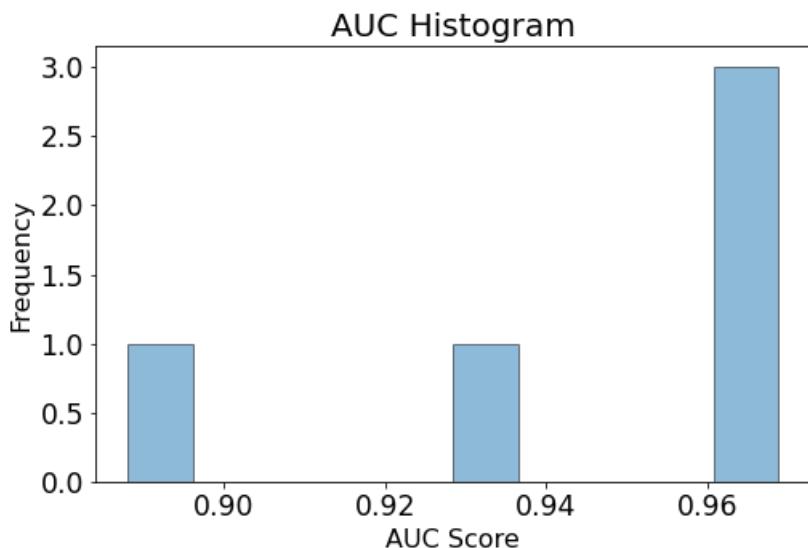
Confusion Matrix



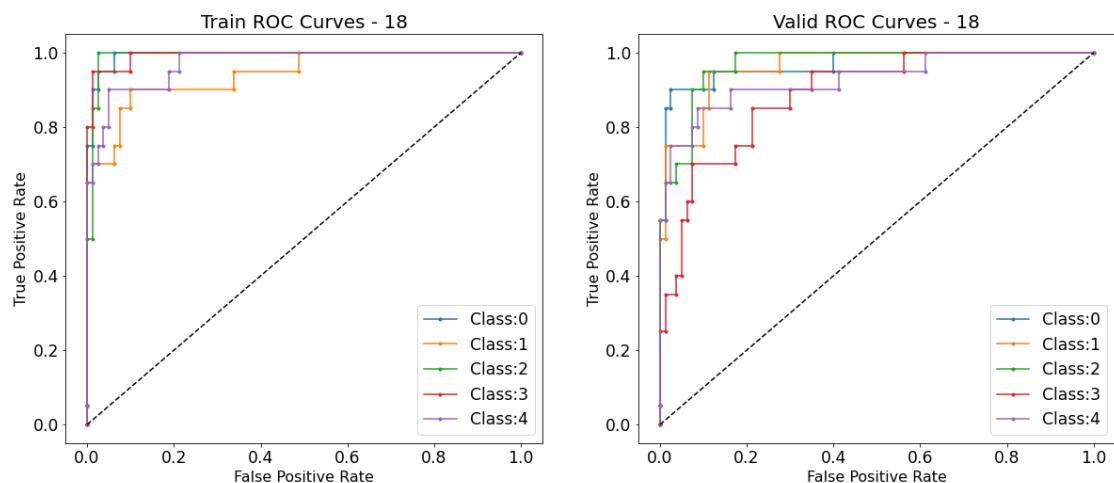
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 19

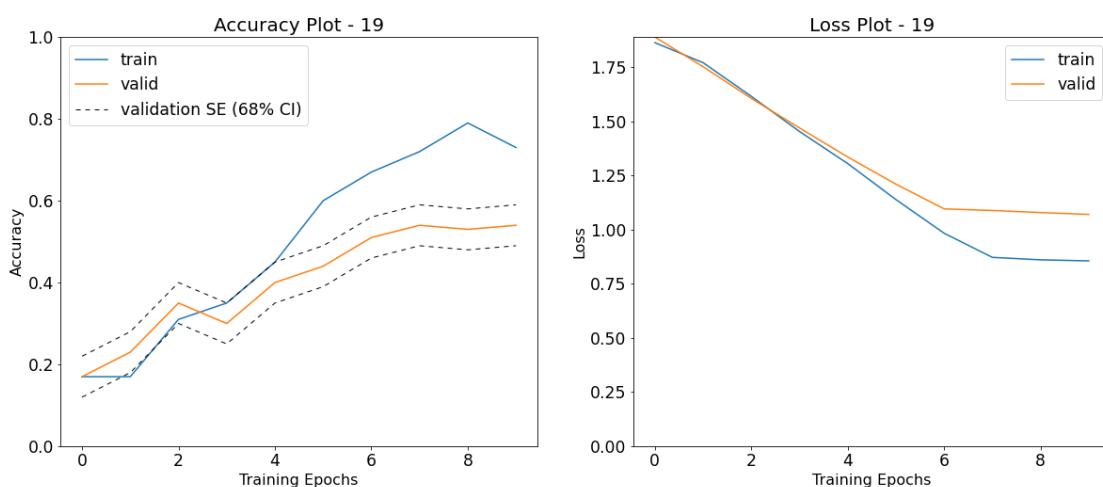
Statistics

Total Images	200
Train Images	100
Valid Images	100

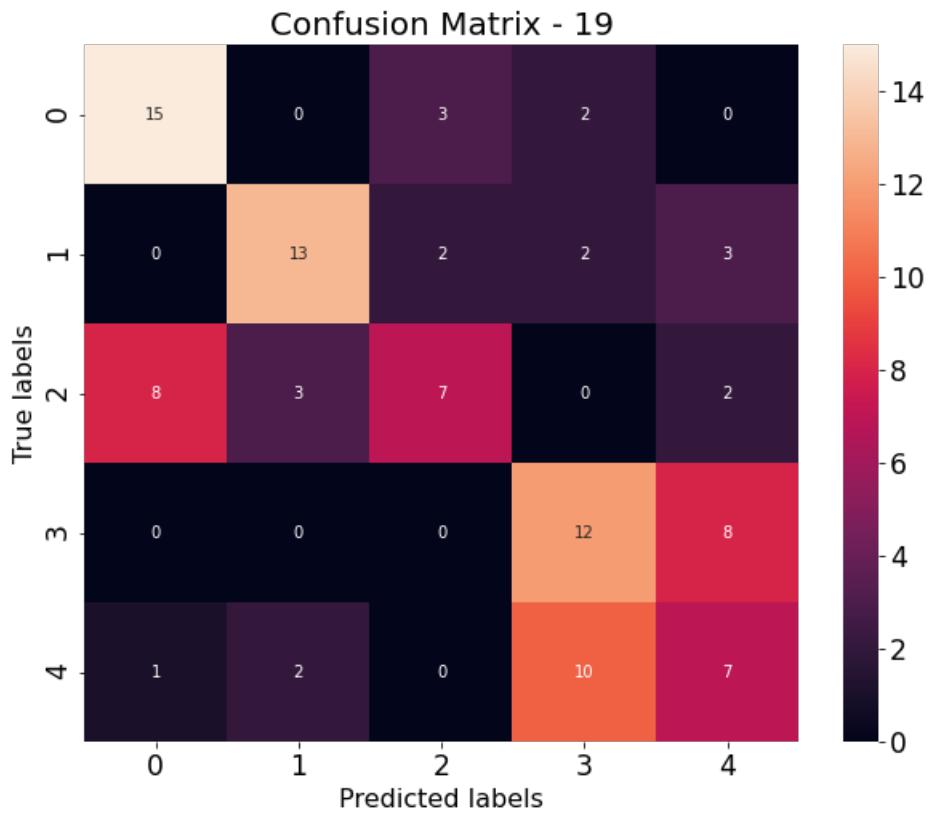
Categories

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

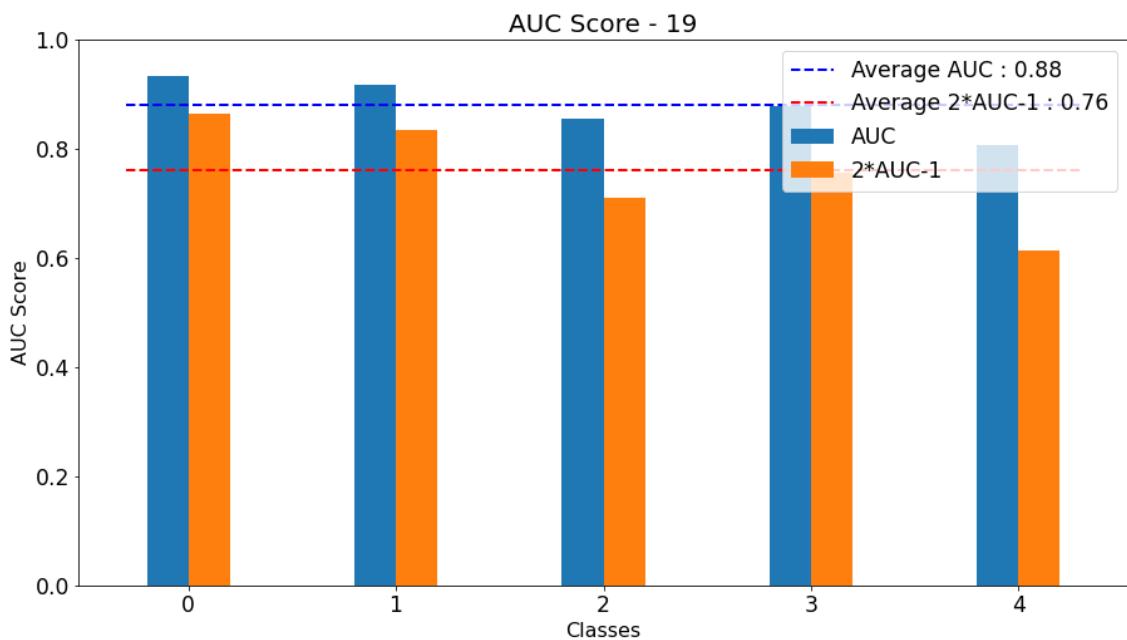
Accuracy Loss Plot



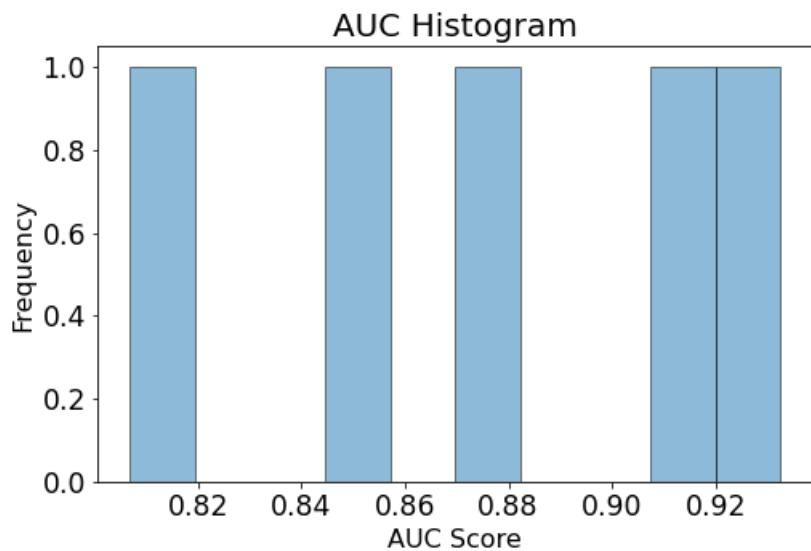
Confusion Matrix



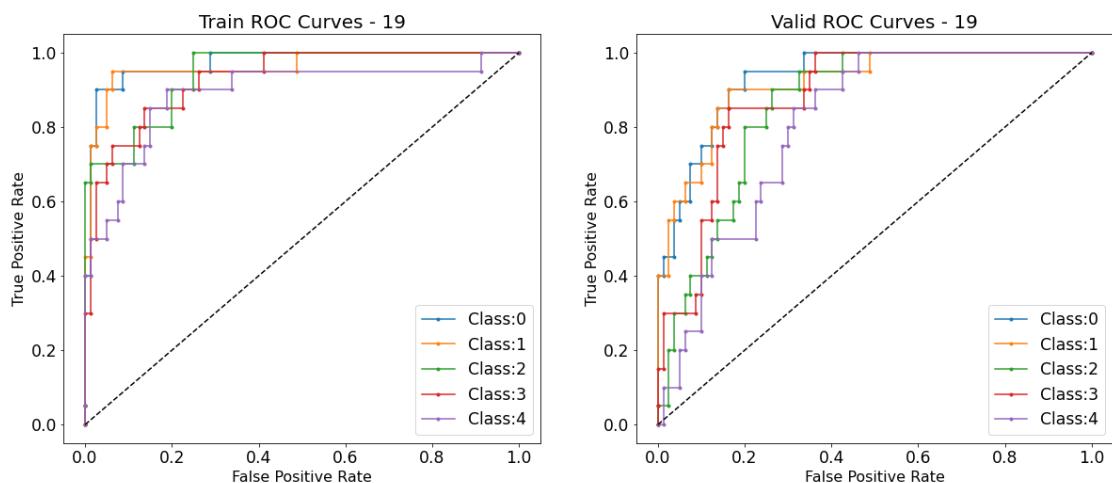
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 20

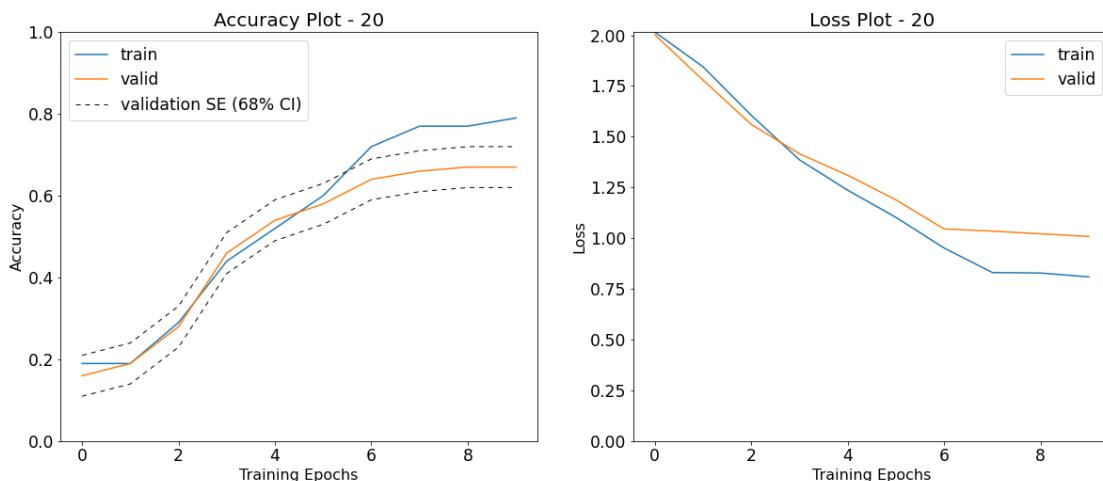
Statistics

Total Images	200
Train Images	100
Valid Images	100
<hr/>	
Training Time	0m 56s
Best Train Accuracy	0.79
Best Valid Accuracy	0.67
<hr/>	
AUC	0.89
2*AUC-1	0.78
Standard Error	0.05

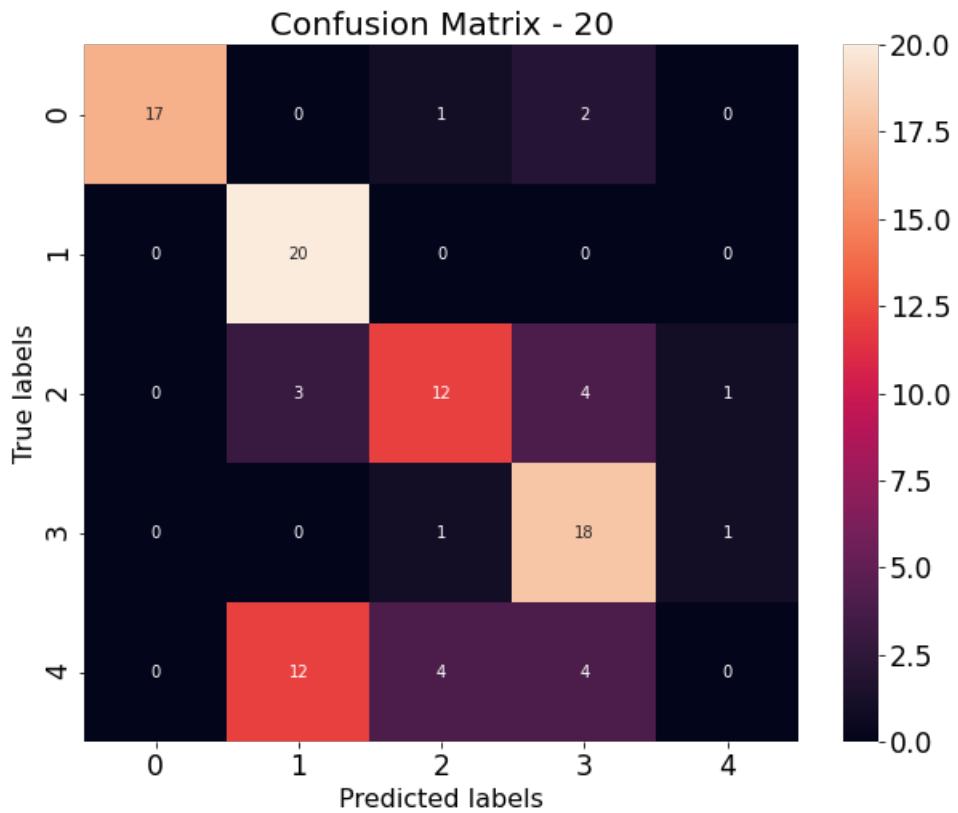
Categories

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

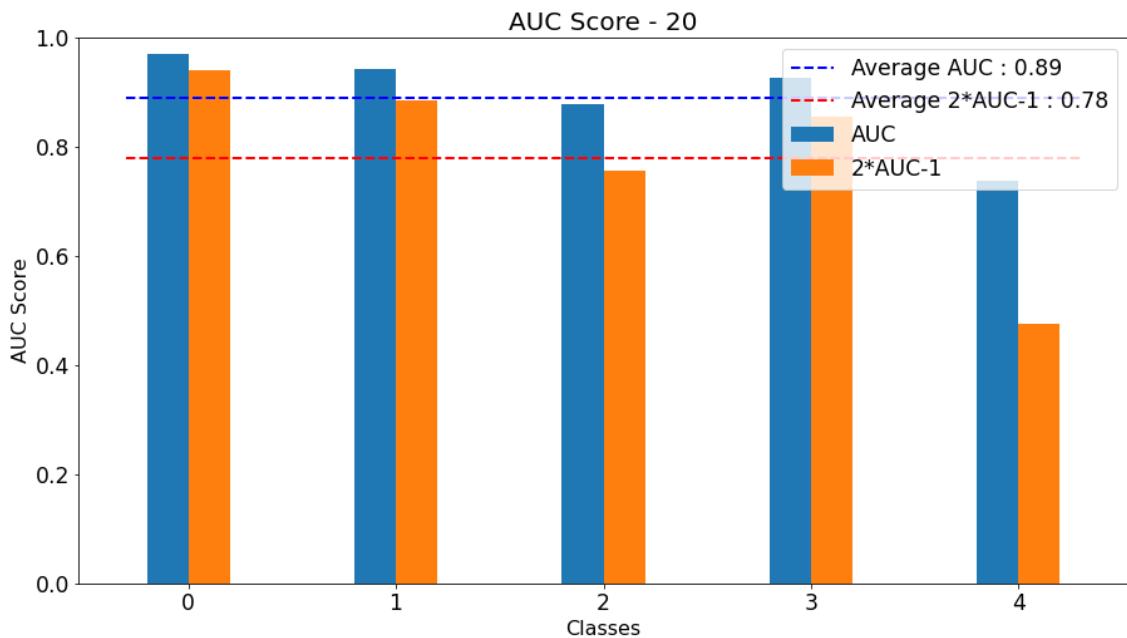
Accuracy Loss Plot



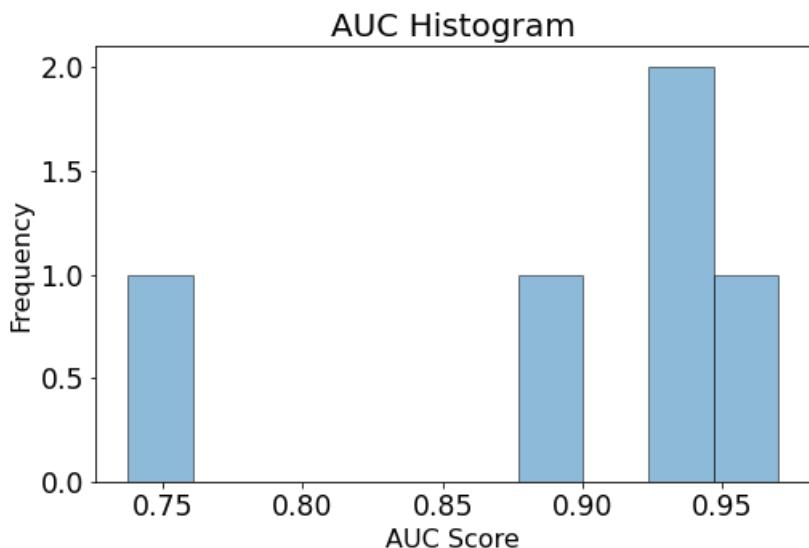
Confusion Matrix



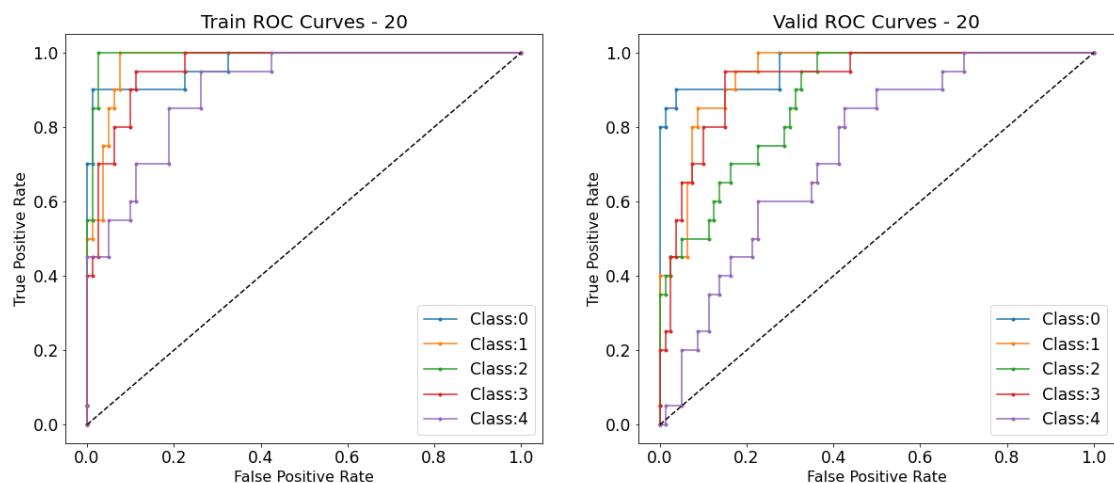
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 21

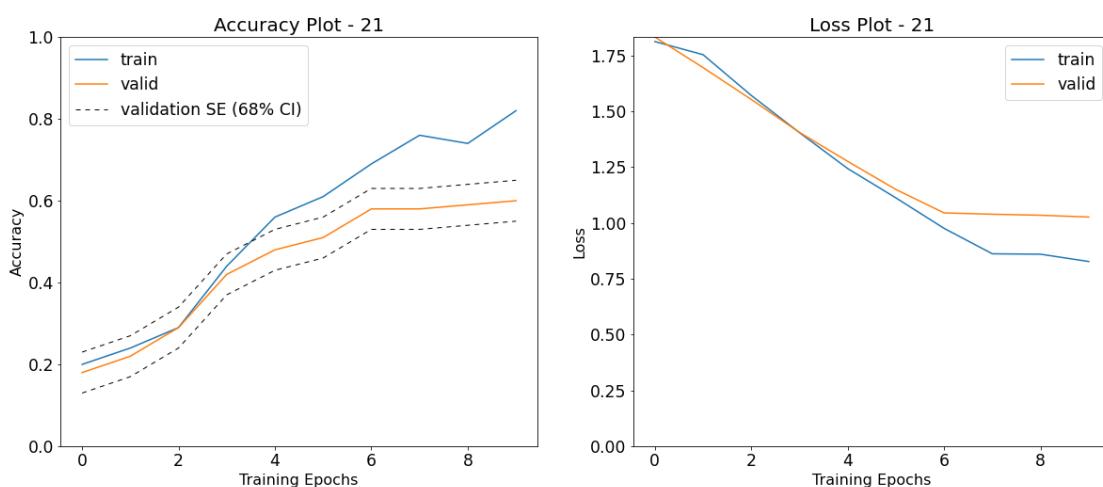
Statistics

Total Images	200
Train Images	100
Valid Images	100

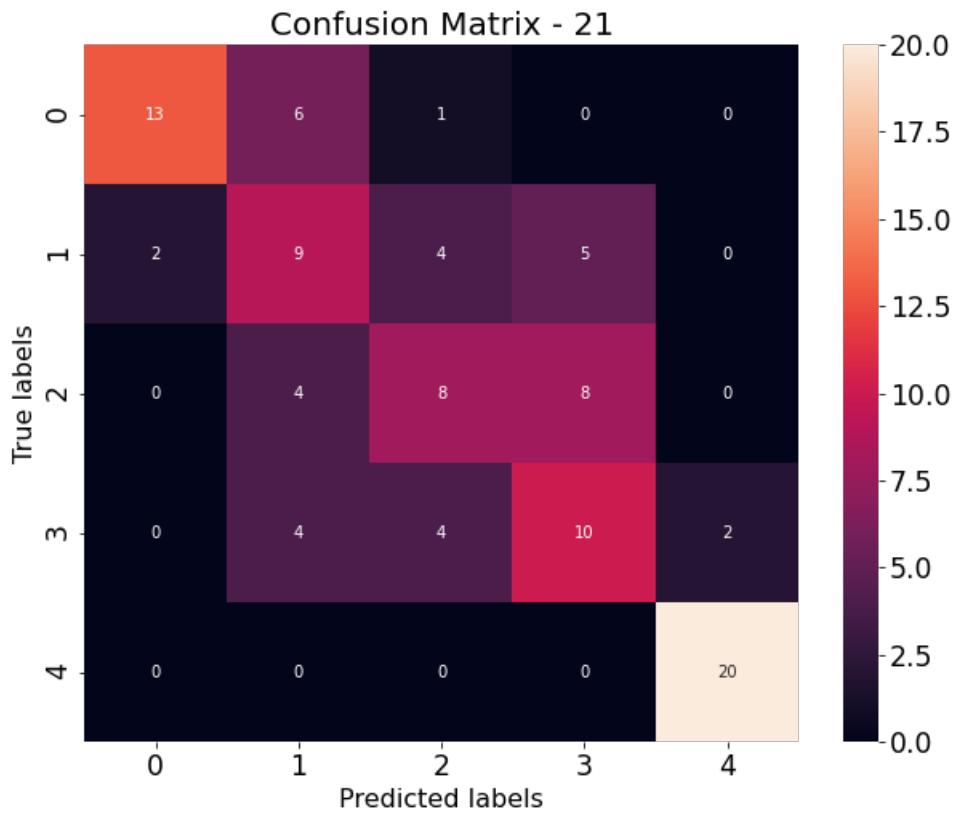
Categories

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

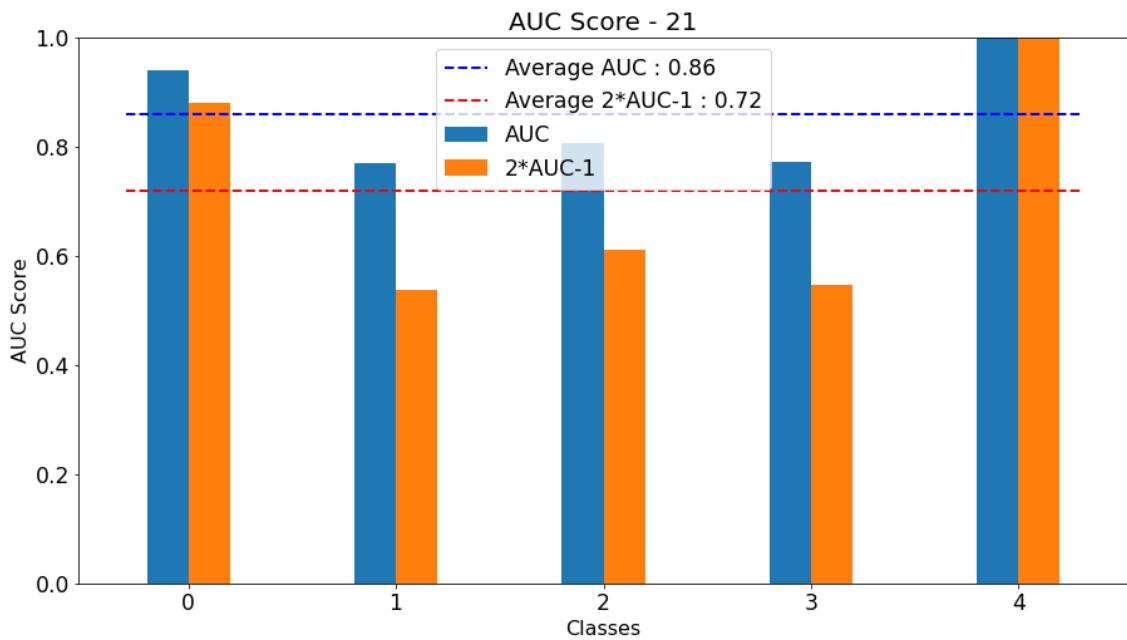
Accuracy Loss Plot



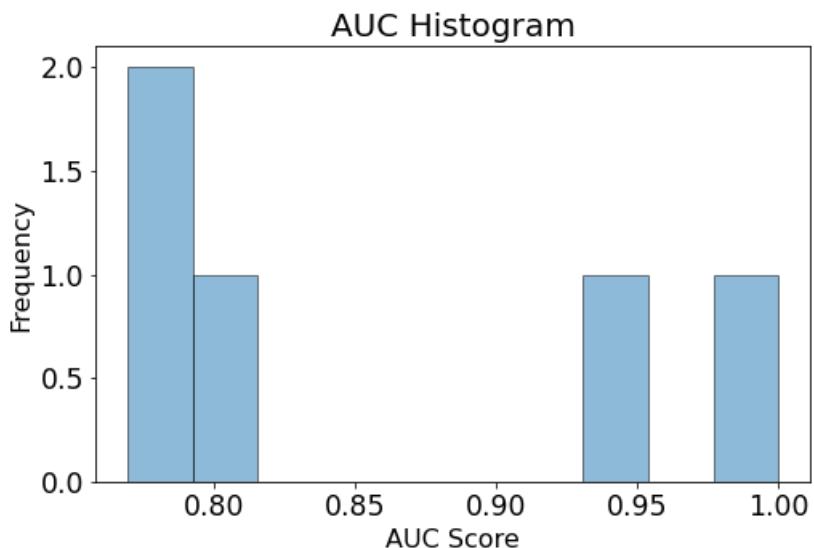
Confusion Matrix



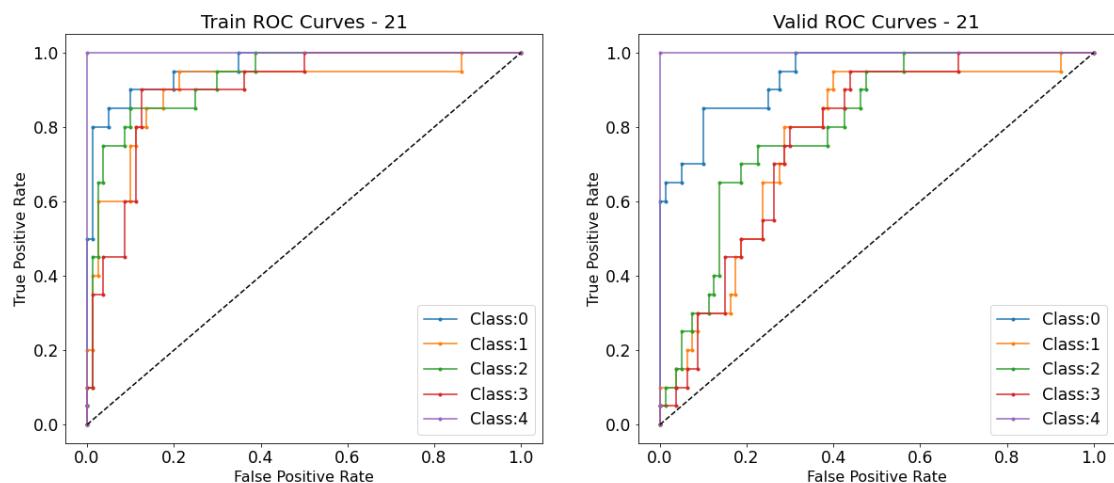
AUC



AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



Super-Category 22

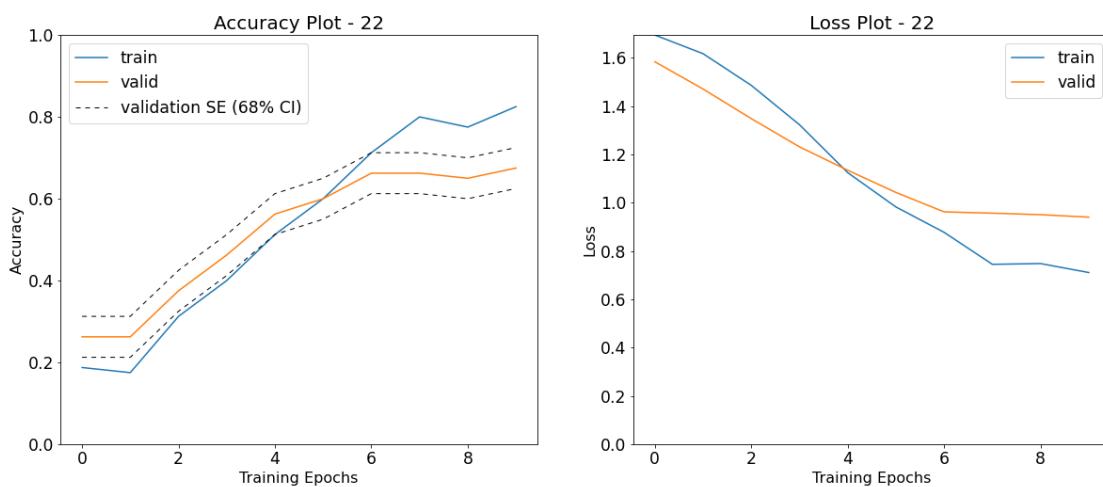
Statistics

Total Images	160
Train Images	80
Valid Images	80
<hr/>	
Training Time	0m 48s
Best Train Accuracy	0.82
Best Valid Accuracy	0.68
<hr/>	
AUC	0.86
2*AUC-1	0.72
Standard Error	0.05

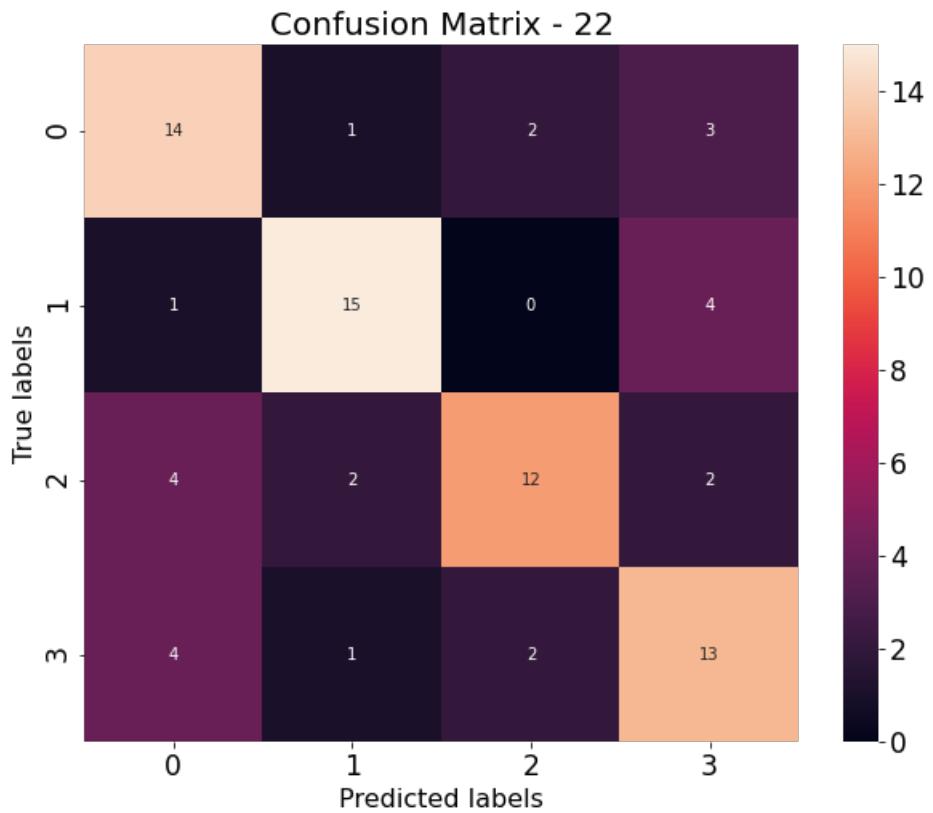
Categories

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

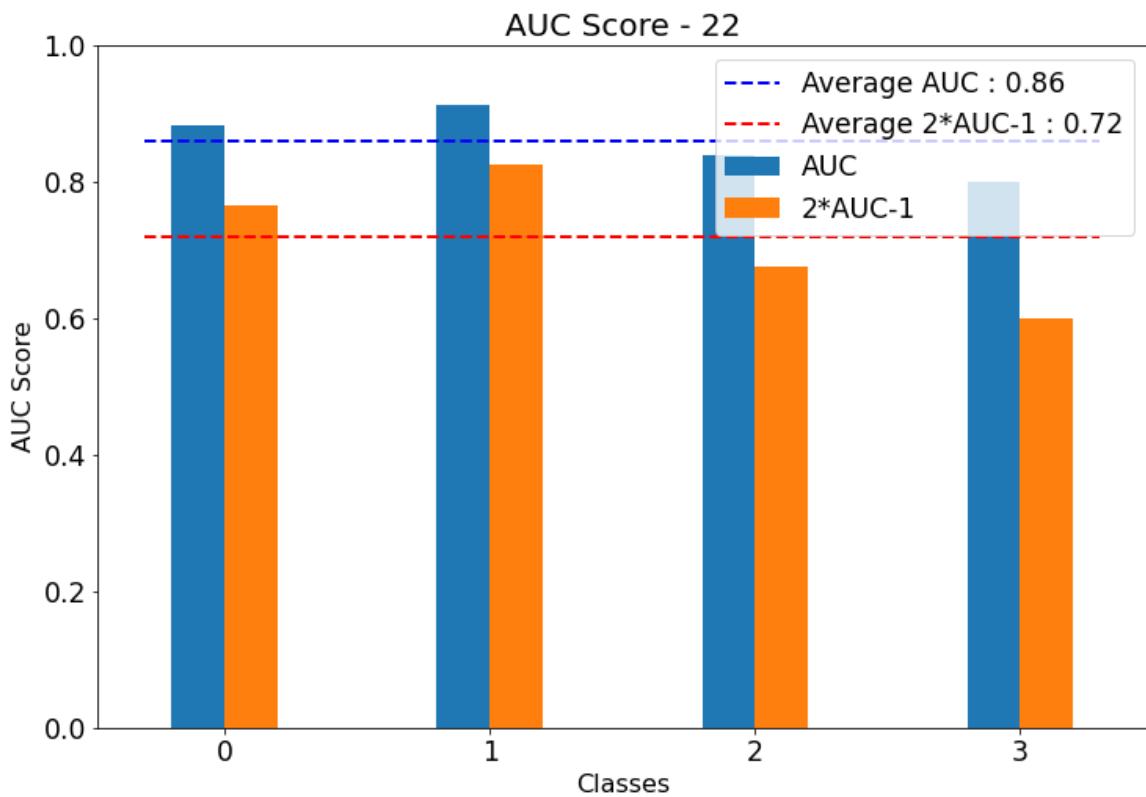
Accuracy Loss Plot



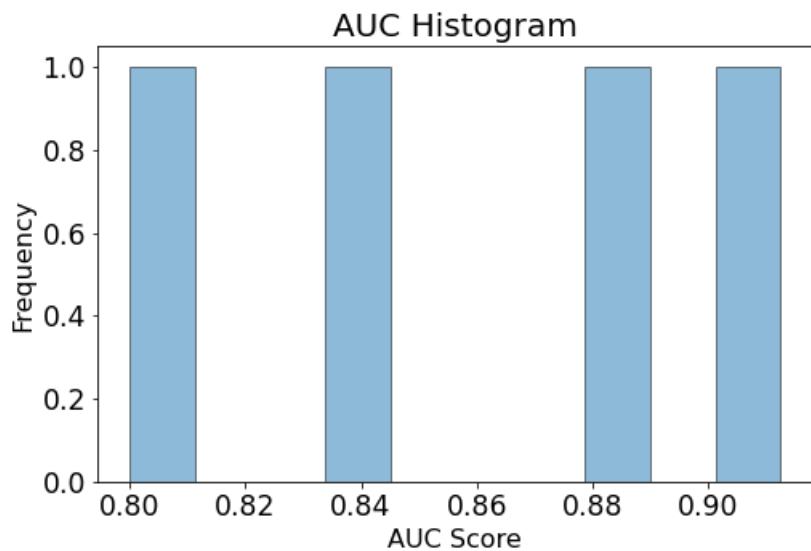
Confusion Matrix



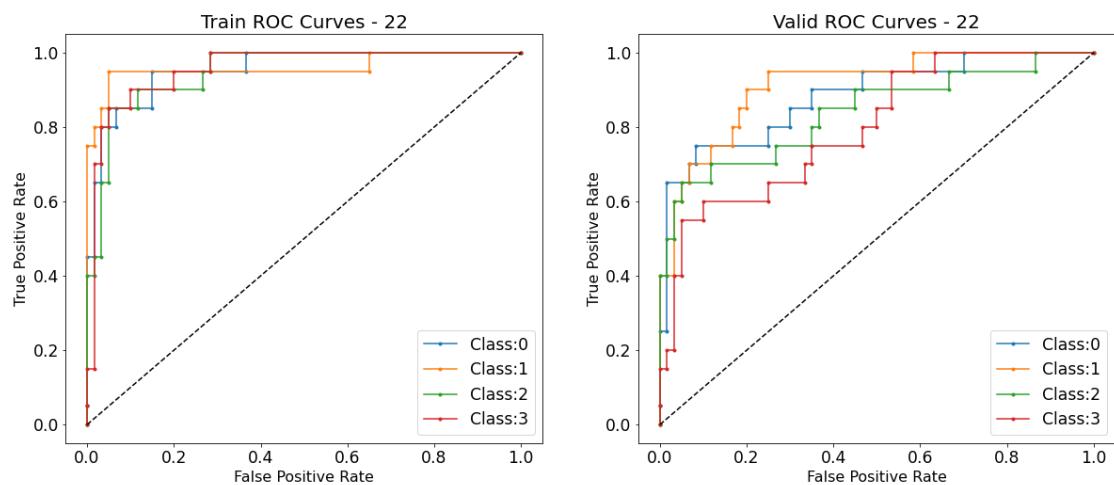
AUC



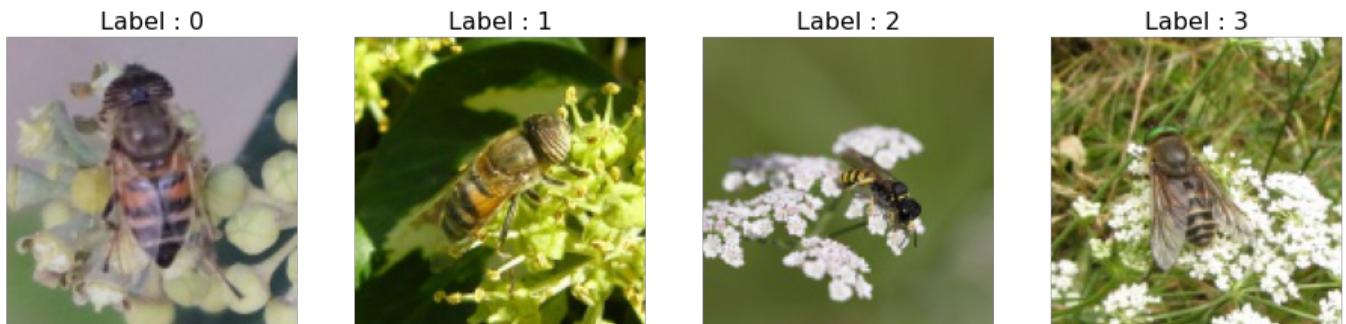
AUC Histogram



ROC Curves



Sample Images



Wrongly Classified Images



