

Supplementary material

Appendix 1

Functional groups of 104 ant genera considered in this study and performance (measured using True Skill Statistic) of BIOMOD ensembles for genera with enough occurrences (≥ 20) to develop SDMs.

Genus	Functional group	True Skill Statistic
<i>Acanthognathus</i>	Litter/Soil Predator	n/a
<i>Acanthoponera</i>	Canopy Predator	n/a
<i>Acanthostichus</i>	Litter/Soil Predator of Termites	n/a
<i>Acromyrmex</i>	Leaf-cutting Fungivore	0.999
<i>Acropyga</i>	Litter/Soil Farmer of Coccids	n/a
<i>Adelomyrmex</i>	Litter/Soil Predator of Mites	0.999
<i>Amblyopone</i>	Litter/Soil Predator	0.995
<i>Anochetus</i>	Litter/Soil Predator	0.999
<i>Aphaenogaster</i>	General Omnivore	0.995
<i>Apterostigma</i>	General Fungivore	0.999
<i>Atta</i>	Leaf-cutting Fungivore	0.998
<i>Azteca</i>	Canopy Omnivore	0.999
<i>Basiceros</i>	Litter/Soil Predator	n/a
<i>Belonopelta</i>	Litter/Soil Predator	n/a
<i>Bothriomyrmex</i>	Unknown	n/a
<i>Brachymyrmex</i>	General Omnivore	0.992
<i>Camponotus</i>	General Omnivore	0.995
<i>Carebara</i>	Unknown	n/a
<i>Carebarella</i>	Unknown	n/a
<i>Centromyrmex</i>	Litter/Soil Predator of Termites	n/a
<i>Cephalotes</i>	Canopy Omnivore	0.999
<i>Cerapachys</i>	Litter/Soil Predator of Ant Larvae	0.999
<i>Cheliomyrmex</i>	Litter/Soil Predator of Ant Larvae	0.999
<i>Creumatogaster</i>	General Omnivore	0.998
<i>Cryptopone</i>	Litter/Soil Predator	n/a
<i>Cylindromyrmex</i>	Litter/Soil Predator of Termites	n/a
<i>Cyphomyrmex</i>	Litter/Soil Fungivore	0.996
<i>Discothyrea</i>	Litter/Soil Predator of Spider Eggs	0.999
<i>Dolichoderus</i>	General Omnivore	0.994
<i>Dolopomyrmex</i>	Unknown	n/a
<i>Dorymyrmex</i>	General Omnivore	0.995
<i>Eciton</i>	Litter/Soil Predator of Ant Larvae	0.999
<i>Ectatomma</i>	General Omnivore	0.999
<i>Eurbopalothrix</i>	Litter/Soil Predator	0.999

Genus	Functional group	True Skill Statistic
<i>Forelius</i>	General Omnivore	0.995
<i>Formica</i>	General Omnivore	0.996
<i>Formicoxenus</i>	Social Parasite	0.998
<i>Gnamptogenys</i>	Litter/Soil Predator	0.999
<i>Harpagoxenus</i>	Social Parasite	n/a
<i>Heteroponera</i>	Litter/Soil Omnivore	n/a
<i>Hylomyrma</i>	Litter/Soil Omnivore	n/a
<i>Hypoponera</i>	Litter/Soil Predator	0.995
<i>Labidus</i>	Litter/Soil Predator of Ant Larvae	0.999
<i>Lachnomyrmex</i>	Litter/Soil Omnivore	n/a
<i>Lasius</i>	General Omnivore	0.996
<i>Lenomyrmex</i>	Unknown	n/a
<i>Leptanilloides</i>	Litter/Soil Predator of Ant Larvae	n/a
<i>Leptogenys</i>	General Predator	0.999
<i>Leptothorax</i>	General Omnivore	0.990
<i>Linepithema</i>	General Omnivore	0.999
<i>Liometopum</i>	General Omnivore	0.997
<i>Manica</i>	General Predator	0.998
<i>Megalomyrmex</i>	General Omnivore	0.999
<i>Messor</i>	General Granivore	0.998
<i>Monomorium</i>	General Omnivore	0.995
<i>Mycetophylax</i>	General Fungivore	n/a
<i>Mycetosoritis</i>	General Fungivore	n/a
<i>Myocepurus</i>	Litter/Soil Fungivore	n/a
<i>Myrmecina</i>	General Predator of Mites	0.996
<i>Myrmecocystus</i>	General Omnivore	0.997
<i>Myrmelachista</i>	General Omnivore	0.999
<i>Myrmica</i>	General Omnivore	0.995
<i>Myrmicocrypta</i>	General Fungivore	n/a
<i>Neivamyrmex</i>	Litter/Soil Predator of Ant Larvae	0.997
<i>Nesomyrmex</i>	General Omnivore	0.999
<i>Nomamyrmex</i>	Litter/Soil Predator of Ant Larvae	0.999
<i>Nylanderia</i>	General Omnivore	0.995
<i>Octostruma</i>	Litter/Soil Predator	0.999
<i>Odontomachus</i>	General Predator	0.998
<i>Pachycondyla</i>	General Predator	0.998
<i>Paraponera</i>	General Omnivore	n/a
<i>Perissomyrmex</i>	Unknown	n/a
<i>Pheidole</i>	General Omnivore	0.997
<i>Platythyrea</i>	Litter/Soil Predator	n/a
<i>Pogonomyrmex</i>	General Granivore	0.998
<i>Polyergus</i>	Social Parasite	0.992
<i>Ponera</i>	General Predator	0.995
<i>Prenolepis</i>	General Omnivore	0.996
<i>Prionopelta</i>	Litter/Soil Predator	0.999
<i>Probolomyrmex</i>	Litter/Soil Predator	n/a
<i>Proceratium</i>	Litter/Soil Predator of Spider Eggs	0.996
<i>Procrptocerus</i>	General Omnivore	0.999
<i>Protomognathus</i>	Unknown	n/a

Genus	Functional group	True Skill Statistic
<i>Pseudomyrmex</i>	Canopy Omnivore	0.997
<i>Pyramica</i>	Litter/Soil Predator	0.997
<i>Rhopalothrix</i>	Litter/Soil Predator	n/a
<i>Rogeria</i>	General Omnivore	0.999
<i>Sericomyrmex</i>	General Fungivore	n/a
<i>Simopelta</i>	Litter/Soil Predator of Ant Larvae	n/a
<i>Solenopsis</i>	General Omnivore	0.996
<i>Stegomyrmex</i>	Litter/Soil Predator	n/a
<i>Stenamamma</i>	Litter/Soil Omnivore	0.994
<i>Strumigenys</i>	Litter/Soil Predator	0.996
<i>Tapinoma</i>	General Omnivore	0.996
<i>Tatuidris</i>	Litter/Soil Predator	n/a
<i>Technomyrmex</i>	General Omnivore	n/a
<i>Temnothorax</i>	General Omnivore	0.993
<i>Tetramorium</i>	General Omnivore	n/a
<i>Thaumatomyrmex</i>	Litter/Soil Predator	n/a
<i>Trachymyrmex</i>	Litter/Soil Fungivore	0.995
<i>Tranopelta</i>	Unknown	n/a
<i>Typhlomyrmex</i>	Litter/Soil Predator	n/a
<i>Wasmannia</i>	General Omnivore	0.999
<i>Xenomyrmex</i>	Canopy Omnivore	0.999

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