

**Table S1. List of spider families with respective ecological characteristics and the resulting guild category.**

Family															Guild	
	Capture web	Sensing web	No web	Tube web	Sheet web	Space web	Orb web	Ambush hunter	Active hunter	Stenophagous	Euryphagous	Ground	Vegetation	Diurnal		Nocturnal
Actinopodidae	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	Sensing web weavers
Agelenidae	1	0	0	1	1	0	0	0	0	0	1	1	1	1	1	Sheet web weavers
Amaurobiidae	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	Sheet web weavers
Ammoxenidae	0	0	1	0	0	0	0	0	1	1	0	1	0	1	1	Specialists
Amphinectidae 1 (majority)	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	Sheet web weavers
Amphinectidae 2 (Amphinectinae)	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Anapidae	1	0	0	0	0	0	1	0	0	0	1	1	0	1	1	Orb web weavers
Antrodiaetidae	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	Sensing web weavers
Anyphaenidae	0	0	1	0	0	0	0	0	1	0	1	1	1	0	1	Other hunters
Araneidae	1	0	0	0	0	0	1	0	0	0	1	0	1	1	1	Orb web weavers
Archaeidae	0	0	1	0	0	0	0	0	1	1	0	1	1	0	1	Specialists
Atypidae	0	1	0	1	0	0	0	0	0	0	1	1	0	1	1	Sensing web weavers
Austrochilidae	1	0	0	0	1	0	0	0	0	0	1	1	0	0	1	Sheet web weavers
Barychelidae	0	1	0	1	0	0	0	0	0	0	1	1	1	0	1	Sensing web weavers
Caponiidae	0	0	1	0	0	0	0	0	1	1	0	1	0	1	1	Specialists
Chummiidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Cithaeronidae	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Clubionidae	0	0	1	0	0	0	0	0	1	0	1	0	1	0	1	Other hunters
Corinnidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Ctenidae	0	0	1	0	0	0	0	0	1	0	1	1	1	0	1	Other hunters
Ctenizidae	0	1	0	1	0	0	0	0	0	0	1	1	1	0	1	Sensing web weavers
Cyatholipidae	1	0	0	0	1	0	0	0	0	0	1	1	1	1	1	Sheet web weavers
Cybaeidae	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	Sheet web weavers
Cycloctenidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Cyrtachenidae	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	Sensing web weavers
Deinopidae	0	0	1	0	0	0	0	1	0	0	1	0	1	1	1	Ambush hunters
Desidae 1 (Toxopinae, Myroninae)	1	0	0	1	1	0	0	0	0	0	1	1	1	0	1	Sheet web weavers
Desidae 2 (Desinae)	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Dictynidae 1 (Dictyninae)	1	0	0	0	0	1	0	0	0	0	1	1	1	1	1	Space web weavers
Dictynidae 2 (Cicurinae, Tricholathysinae)	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Diguetidae	1	0	0	0	0	1	0	0	0	0	1	1	1	1	0	Space web weavers
Dipluridae	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	Sheet web weavers
Drymusidae	1	0	0	0	0	1	0	0	0	0	1	1	0	1	1	Space web weavers
Dysderidae	0	0	1	0	0	0	0	0	1	1	0	1	0	0	1	Specialists
Eresidae	1	0	0	1	1	1	0	0	0	0	1	1	1	1	1	Sheet web weavers
Filistatidae	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	Sensing web weavers
Gallieniellidae	0	0	1	0	0	0	0	0	1	1	0	1	0	1	1	Specialists
Gnaphosidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Gradungulidae	0	0	1	0	0	0	0	1	0	1	0	1	0	0	1	Ambush hunters
Hahniidae	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	Sheet web weavers
Hersiliidae	0	1	0	0	1	0	0	1	0	0	1	1	1	1	1	Sensing web weavers
Hexathelidae	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	Sheet web weavers

Holarchaeidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Homalonychidae	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Huttoniidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Hypochilidae	1	0	0	0	0	1	0	0	0	0	1	1	0	0	1	Space web weavers
Idiopidae	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	Sensing web weavers
Lamponidae	0	0	1	0	0	0	0	0	1	1	0	1	0	0	1	Specialists
Leptonetidae	1	0	0	0	0	1	0	0	0	0	1	1	0	0	1	Space web weavers
Linyphiidae 1 (Linyphiinae, Micronetinae)	1	0	0	0	1	1	0	0	0	0	1	1	1	1	1	Sheet web weavers
Linyphiidae 2 (Erigoninae and others)	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	Other hunters
Liocranidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Liphistiidae	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	Sensing web weavers
Lycosidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Malkaridae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Mecicobothriidae	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	Sheet web weavers
Mecysmauchenidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Micropholcommatidae	1	0	0	0	0	1	0	0	0	0	1	1	0	1	1	Space web weavers
Microstigmatidae	0	0	1	0	0	0	0	1	0	0	1	1	0	0	1	Ambush hunters
Migidae	0	1	0	1	0	0	0	0	0	0	1	1	1	0	1	Sensing web weavers
Mimetidae	0	0	1	0	0	0	0	0	1	1	0	1	1	1	1	Specialists
Miturgidae	0	0	1	0	0	0	0	0	1	0	1	1	1	0	1	Other hunters
Mysmenidae	1	0	0	0	0	1	1	0	0	0	1	1	1	1	1	Space web weavers
Nemesiidae	0	1	0	1	0	0	0	0	0	0	1	1	0	0	1	Sensing web weavers
Nephiidae	1	0	0	0	0	0	1	0	0	0	1	0	1	1	1	Orb web weavers
Nesticidae	1	0	0	0	0	1	0	0	0	0	1	1	0	1	1	Space web weavers
Nicodamidae	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	Sheet web weavers
Ochyroceratidae	1	0	0	0	1	1	0	0	0	0	1	1	0	0	1	Sheet web weavers
Oecobiidae	0	1	0	0	1	0	0	1	0	0	1	1	0	1	1	Sensing web weavers
Oonopidae	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Orsolobidae	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Oxyopidae	0	0	1	0	0	0	0	0	1	0	1	0	1	1	1	Other hunters
Palpimanidae	0	0	1	0	0	0	0	0	1	1	0	1	0	1	1	Specialists
Pararchaeidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Paratropididae	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Periegopidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Philodromidae	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	Other hunters
Pholcidae	1	0	0	0	0	1	0	0	0	0	1	1	1	1	1	Space web weavers
Phyxelididae	1	0	0	0	1	1	0	0	0	0	1	1	0	1	1	Sheet web weavers
Pimoidae	1	0	0	0	1	0	0	0	0	0	1	1	1	0	1	Sheet web weavers
Pisauridae	1	0	0	1	1	0	0	0	0	0	1	1	1	1	1	Sheet web weavers
Plectreuridae	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Prodromidae	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
Psechridae	1	0	0	1	1	0	0	0	0	0	1	0	1	1	1	Sheet web weavers
Salticidae	0	0	1	0	0	0	0	0	1	0	1	1	1	1	0	Other hunters
Scytodidae	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	Other hunters
Segestriidae	0	1	0	1	0	0	0	0	0	0	1	1	1	1	1	Sensing web weavers
Selenopidae	0	0	1	0	0	0	0	1	0	0	1	1	1	0	1	Ambush hunters
Senoculidae	0	0	1	0	0	0	0	0	1	0	1	0	1	0	1	Other hunters
Sicariidae	0	0	1	0	0	0	0	1	0	0	1	1	0	0	1	Ambush hunters
Sparassidae	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	Other hunters
Stenochilidae	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
Stiphidiidae	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	Sheet web weavers
Symphytognathidae	1	0	0	0	0	0	1	0	0	0	1	1	0	1	1	Orb web weavers

<b>Synsphyridae</b>	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	Sheet web weavers
<b>Synotaxidae</b>	1	0	0	0	1	1	1	0	0	0	1	0	1	0	1	Orb web weavers
<b>Telemidae</b>	1	0	0	0	1	0	0	0	0	1	0	1	0	0	1	Specialists
<b>Tengellidae</b>	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	Other hunters
<b>Tetrablemmidae</b>	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	Sheet web weavers
<b>Tetragnathidae</b>	1	0	0	0	0	0	1	0	0	0	1	0	1	1	1	Orb web weavers
<b>Theraphosidae</b>	0	1	0	1	0	0	0	0	0	0	1	1	1	0	1	Sensing web weavers
<b>Theridiidae</b>	1	0	0	0	0	1	0	0	0	0	1	1	1	1	1	Space web weavers
<b>Theridiosomatidae</b>	1	0	0	0	0	0	1	0	0	0	1	1	1	1	1	Orb web weavers
<b>Thomisidae</b>	0	0	1	0	0	0	0	1	0	0	1	1	1	1	1	Ambush hunters
<b>Titanoecidae</b>	1	0	0	1	0	1	0	0	0	0	1	1	0	1	1	Space web weavers
<b>Trechaleidae</b>	0	0	1	0	0	0	0	0	1	1	0	0	1	1	1	Specialists
<b>Trochanteridae</b>	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	Ground hunters
<b>Uloboridae</b>	1	0	0	0	0	0	1	0	0	0	1	0	1	1	1	Orb web weavers
<b>Zodariidae</b>	0	0	1	0	0	0	0	1	1	1	0	1	0	1	1	Specialists
<b>Zoridae</b>	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
<b>Zorocratidae</b>	0	0	1	0	0	0	0	0	1	0	1	1	0	1	1	Ground hunters
<b>Zoropsidae</b>	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	Sheet web weavers