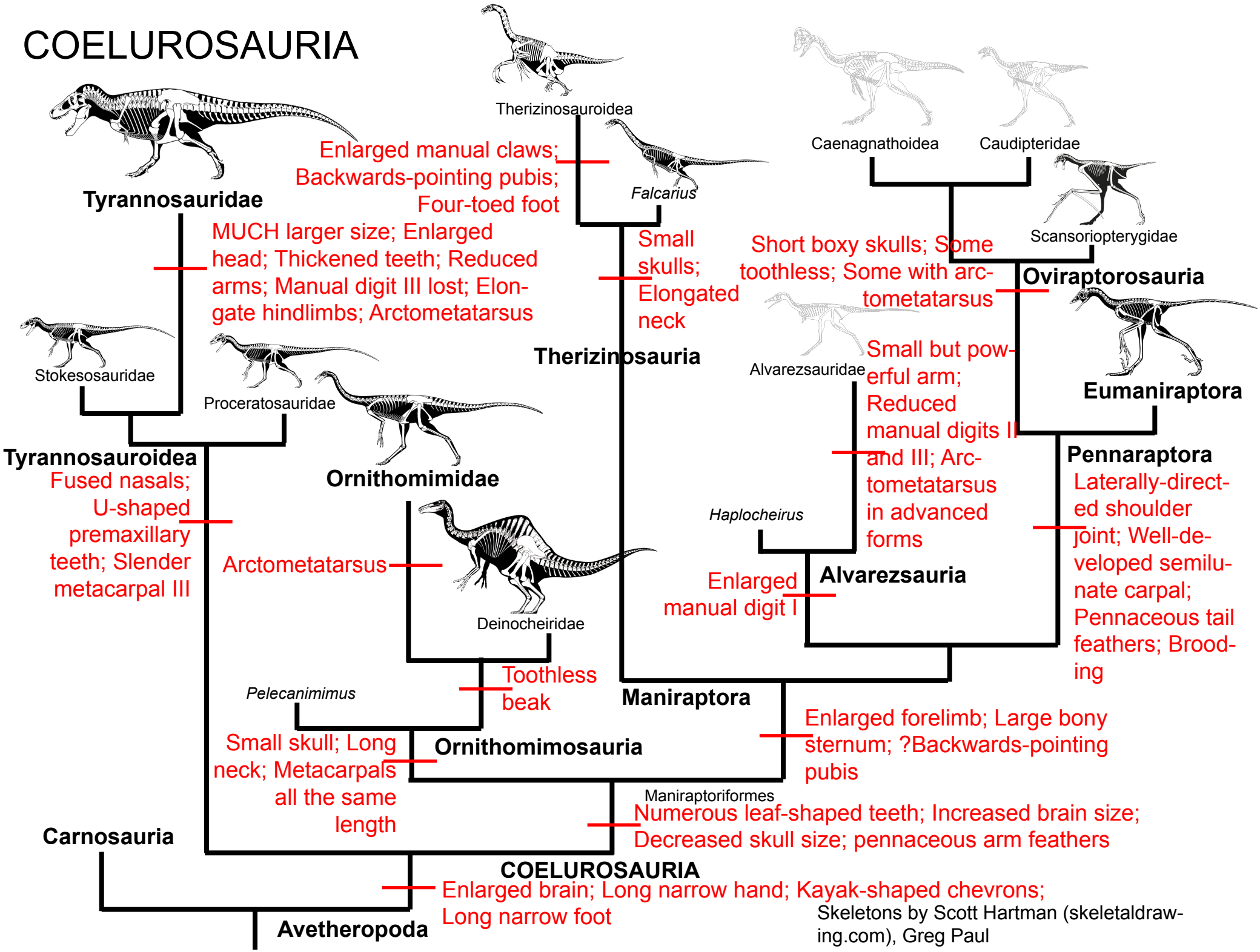
COELUROSAURIA
Therizinosauroidea
Caenagnathoidea
Caudipteridae
Tyrannosauridae
Enlarged manual claws; Backwards-pointing pubis; Four-toed foot
Falcarius
Scansoriopterygidae
MUCH larger size; Enlarged head; Thickened teeth; Reduced arms; Manual digit III lost; Elongate hindlimbs; Arctometatarsus
Small skulls; Elongated neck
Short boxy skulls; Some toothless; Some with arctometatarsus
Oviraptorosauria
Stokesosauridae
Proceratosauridae
Therizinosauria
Alvarezsauridae
Eumaniraptora
Tyrannosauroidea
Ornithomimidae
Small but powerful arm; Reduced manual digits II and III; Arctometatarsus in advanced forms
Pennaraptora
Fused nasals; U-shaped premaxillary teeth; Slender metacarpal III
Haplocheirus
Laterally-directed shoulder joint; Well-developed semilunate carpal; Pennaceous tail feathers; Brooding
Arctometatarsus
Enlarged manual digit I
Alvarezsauria
Deinocheiridae
Toothless beak
Pelecanimimus
Maniraptora
Enlarged forelimb; Large bony sternum; ?Backwards-pointing pubis
Small skull; Long neck; Metacarpals all the same length
Ornithomimosauria
Maniraptoriformes
Numerous leaf-shaped teeth; Increased brain size; Decreased skull size; pennaceous arm feathers
Carnosauria
COELUROSAURIA
Enlarged brain; Long narrow hand; Kayak-shaped chevrons; Long narrow foot
Avetheropoda
Skeletons by Scott Hartman (skeletaldrawing.com), Greg Paul