

EEOB Graduate Seminar: Systematics (8896.1)

Phylogenetic Comparative Methods

Dr. Jordan Satler and Dr. Bryan Carstens

Wednesday 4:15-5:15 pm

Phylogenetic comparative methods allow researchers to address foundational questions in evolutionary biology, including (but not limited to) how traits evolve within and between species, how rates of speciation and extinction vary across the tree of life, how traits contribute to generating diversification, and how species' ranges change through time.

In this seminar, we will use the new book *Phylogenetic Comparative Methods in R* by Dr. Liam Revell and Dr. Luke Harmon to learn both the theory behind these methods as well as how to implement them in the statistical programming language R. By the end of the semester, students will have a deeper understanding of these methods as well as how they can be applied to their research.

