

Systematic Biology

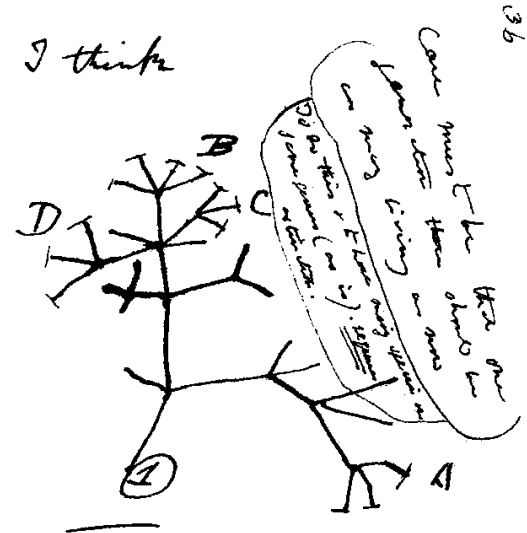
BIOS 4600X/5600X

(Formerly BIOS 4570/5570 Animal Systematics)

The Tree of Life is a wellspring of information for ecology, adaptation, molecular evolution, development, species formation, biogeography, & other fundamental biological processes. With advances in genomics and increases in computational power, our understanding of the Tree of Life has been revolutionized, as have the methods used for including phylogeny in studies of ecology and evolution.

Systematic Biology is not a course aimed at budding systematists only. Rather, it is a course in phylogenetic biology for everyone. It includes sections on phylogenetic inference (from parsimony to Bayesian analysis to species trees) and the use of phylogenetic trees for studying evolutionary processes (comparative methods). We also explore phylogenetic perspectives in ecology & conservation. In computer labs, we perform a multitude of systematic analyses, and we develop skills that are of broad utility—such as Bayesian inference, using information criteria, the Unix terminal, programming in R, and other topics.

The course is aimed at graduate students, but interested undergraduates are welcome. Feel free to contact Dr. Kuchta with any questions.



then between A + B. various
type of relation. C + B. The
first predation, B + D
rather greater distinction
then genus would be
formed. - binary relation

Darwin's 1st phylogenetic tree

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