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From Live Structures to Numbers, the Interactions between Live Organism Distribution and Abundances and the Explanation in Numbers

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The classic definition on ecology explains as definition that ecology is the science that study distribution and abundance of live organisms and their relation between them and environmental parameters [1]. In this scenario, the study of natural sciences involves the use of mathematical tools for improve the quality of studies, within these mathematical tools, the use of statistics is very important for any ecological study [2]. As personal note I remarks the inevitable union between statistics and ecology, I remarks the word "inevitable" because although both disciplines are opposite, if both disciplines work coordinated can be a powerful instance for science and technology.

Although there are many classic statistical books that are focused on theoretical statistics or applied to engineering sciences, fortunately there are classic and unforgettable statistical books easy for understanding for biological sciences, in example is the classic book of Jerold H. Zar [3]. Also, if we considerate the use of free software such as R or Python, currently there are books that explain in single language the use of both languages for basic statistics [1].

As conclusion, it is an invitation for include more statistical training in formation at different levels (undergraduate, master and doctorate) for biological sciences, mainly ecology, morphology and systematics, because if statistics is used and interpreted right, the studies of biological sciences will improve significantly their understanding and quality.

REFERENCES

[1] Bruce P, Bruce A, Gedeck P. Practical Statistics for Data Scientists: 50+ Essential Concepts Using R and Python. O'Reilly Media. 2020 Apr.
[2] Gotelli NJ and Ellison AM. A Primer of Ecological Statistics. Sunderland: Sinauer Associates. 2004 Apr.
[3] Zar JH. Spearman Rank Correlation: Overview. Wiley Statsref: Statistics Reference Online. 2014 Apr.