

Methods

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Table of contents

Books	1
Techniques and Concepts in Movement Ecology: With applications in R . . .	1
Online workshops	2
HKU Movement Ecology in R Workshop	2
Review papers	2

Here we have resources and links for common movement ecology methods that you might want to use.

«< **Click the tabs to the left to get information and resources for specific methods.**

Below are some general resources, such as books and workshops with online resources, to give a general overview of movement ecology methods and concepts.

Books

Techniques and Concepts in Movement Ecology: With applications in R

Authors: E. Gurarie, N. Barbour, O. Couriot, others.

This book is still being developed, but it gives an excellent overview of animal movement and statistical concepts. It is freely accessible online at <https://eligurarie.github.io/MovementEcologyBook/>.

Online workshops

HKU Movement Ecology in R Workshop

Contributors: Dana Paige Seidel, Eric Dougherty, Wayne M. Getz

This is a fantastic online resource that covers a range of approaches, also providing code for a variety of movement ecology methods. It was developed in 2018 so there have been methodological developments since then, but it still looks to be robust. Available at <https://www.danaseidel.com/MovEco-R-Workshop/>

Review papers

Florko, K. R. N., Togunov, R. R., Gryba, R., Sidrow, E., Ferguson, S. H., Yurkowski, D. J., & Auger-Méthé, M. (2025). **An introduction to statistical models used to characterize species-habitat associations with animal movement data.** *Movement Ecology*, 13(1), 27. <https://doi.org/10.1186/s40462-025-00549-2>

Joo, R., Boone, M. E., Clay, T. A., Patrick, S. C., Clusella-Trullas, S., & Basille, M. (2020). **Navigating through the r packages for movement.** *The Journal of Animal Ecology*, 89(1), 248–267. <https://doi.org/10.1111/1365-2656.13116>