

Movement Ecology Survey

Thank you for taking the time to participate. The purpose of this survey is to assess the perspective of movement ecologists on their own field. We want to understand where the field of movement ecology is right now, what has changed in the past 10 years, and what is expected to be a game-changer in the next 10 years.

The survey will only take 10-15 minutes to complete. Try to be as broad as you can when you answer, but it is fine if your answers are biased towards your particular experience. We are asking for opinions so there is no correct answer.

For more information about your rights as a research participant in the study, you can also contact IRB02 Office, Box 112250, University of Florida, Gainesville, FL 32611-2250. Phone 392-0433. IRB study number: **IRB201900314**

How many years have you been doing scientific research?

How many years have you been working on animal movement?

In a 2008 article, "A movement ecology paradigm for unifying organismal movement research", Nathan et al. defined a movement ecology framework where the movement propagation process is produced by the motion and the navigation processes, with internal and external factors affecting movement.

Would you say that most research articles in movement ecology analyze these components of the movement ecology framework? Please select the choice that approaches more to your view.

	Studied in a few papers	Studied in about half of papers	Studied in most papers	I have no idea
Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Navigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internal Factors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
External Factors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Which taxa do you consider to be studied **the most** in movement ecology? (up to three)

- Mammalia (excluding Human)
- Aves
- Reptilia (excluding Aves)
- Arthropoda
- Homo Sapiens
- Amphibia
- Osteichthyes (Bony-fish)
- Chondrichthyes (Sharks and Rays)
- Other (describe)

Which tracking device do you consider to be used **the most** in movement ecology? (up to three)

- Light Loggers (e.g. GLS)
- Satellite Tags (e.g. ARGOS, PSAT, PTT, etc.)
- Radio tags (VHF or UHF based)
- GPS
- Images (Video and static)
- Acoustic telemetry
- Accelerometer
- Encounter (e.g capture mark recapture, banding, direct observation)
- Other (describe)

Which software do you think is used **the most** for movement analysis? (up to three)

- R
- Python
- ArcGIS
- Matlab
- SAS
- SPSS
- Relational databases (RDBMs)
- QGIS
- Other (describe)

Which statistical/mathematical methods do you consider to be used **the most** for movement analysis? (up to three)

- Net squared displacement
- Test statistics and p-values
- Model selection criteria (e.g AIC)
- GLMs and GAMs
- Multivariate exploratory methods
- Machine learning
- Step and resource selection functions
- State-space and Hidden Markov models
- Spatial point processes
- Other (describe)

Would you say that the these components of the movement ecology framework are currently being more, less or equally studied compared to **10 years ago**?

	Less studied	Equally studied	More Studied	I have no idea
Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Navigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Internal Factors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
External Factors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Which tracking devices do you think are used **more often** now compared to **10 years ago**? (up to three)

- » Light Loggers (e.g. GLS)
- » Satellite Tags (e.g. ARGOS, PSAT, PTT, etc.)
- » Radio tags (VHF or UHF based)
- » GPS
- » Images (Video and static)
- » Acoustic telemetry
- » Accelerometer
- » Encounter (e.g capture mark recapture, banding, direct observation)
- » Other (describe)

Which tracking devices do you think are used **less often** now compared to **10 years ago**? (up to three)

- » Light Loggers (e.g. GLS)
- » Satellite Tags (e.g. ARGOS, PSAT, PTT, etc.)
- » Radio tags (VHF or UHF based)
- » GPS
- » Images (Video and static)
- » Acoustic telemetry
- » Accelerometer
- » Encounter (e.g capture mark recapture, banding, direct observation)
- » Other (describe)

For movement analysis, which software do you think are used **more often** now compared to **10 years ago**? (up to three)

- » R
- » Python
- » ArcGIS
- » Matlab
- » SAS
- » SPSS
- » Relational databases (RDBMs)
- » QGIS
- » Other (describe)

For movement analysis, which software do you think are **used less often** now compared to **10 years ago**? (up to three)

- » R
- » Python
- » ArcGIS
- » Matlab
- » SAS
- » SPSS
- » Relational databases (RDBMs)
- » QGIS
- » Other (describe)

Which methods do you think are used **more often** now compared to **10 years ago**? (up to three)

- » Net squared displacement
- » Test statistics and p-values
- » Model selection criteria (e.g AIC)
- » GLMs and GAMs
- » Multivariate exploratory methods
- » Machine learning
- » Step and resource selection functions
- » State-space and Hidden Markov models
- » Spatial point processes
- » Other (describe)

Which methods do you think are **used less often** now compared to **10 years ago**? (up to three)

- » Net squared displacement
- » Test statistics and p-values
- » Model selection criteria (e.g AIC)
- » GLMs and GAMs
- » Multivariate exploratory methods
- » Machine learning
- » Step and resource selection functions
- » State-space and Hidden Markov models
- » Spatial point processes
- » Other (describe)

In your opinion, what has revolutionized the field in the **last 10 years**? (Please keep it to three topics)

Compared to 10 years ago, what would you be able to work on now that you **could not do 10 years ago**? (Please keep it to three topics; your answer may involve taxa, devices, methods or others)

In your opinion, what will revolutionize the field in the **next 10 years**? (Please keep it to three topics)