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 reso	earch?		
How many years have you	been working on animal	movement?		
In a 2008 article, "A movem a movement ecology frame navigation processes, with	work where the moveme	nt propagation proces	s is produced by the n	
Would you say that most re framework? Please select t			nese components of th	ne movement ecology
	Studied in a few papers	Studied in about half of papers	Studied in most papers	I have no idea
Motion	0	0	0	0
Navigation	0	0	0	0
Internal Factors	0	0	0	0
External Factors	0	0	0	0
Which taxa do you conside	r to be studied the most	in movement ecology?	? (up to three)	
☐ Mammalia (excluding ☐ Aves ☐ Poptilia (excluding Ave)	·			
Reptilia (excluding Av	es)			
☐ Homo Sapiens				
Amphibia				
Osteichthyes (Bony-fis	sh)			
☐ Chondrichthyes (Shar	ks and Rays)			
Other (describe)				

Satellite Tags (e.g. ARGC) Radio tags (VHF or UHF) GPS Images (Video and static) Acoustic telemetry Accelerometer Encounter (e.g capture n) Other (describe)	based)	ng, direct observation)		
Which software do you thir	ık is used the mos t	t for movement analy	ysis? (up to three)	
R Python ArcGIS Matlab SAS SPSS Relational databases (RI QGIS Other (describe)	DBMs)			
Which statistical/mathematical m	ethods do you consider	to be used the most for	movement analysis? ((up to three)
Net squared displacemen☐ Test statistics and p-valu				
Model selection criteria (GLMs and GAMs Multivariate exploratory r Machine learning Step and resource select State-space and Hidden Spatial point processes Other (describe)	e.g AIC) nethods ion functions			
Model selection criteria (GLMs and GAMs Multivariate exploratory r Machine learning Step and resource select State-space and Hidden Spatial point processes	e.g AIC) nethods ion functions Markov models	ent ecology framework a	are currently being more	e, less or equally studied
Model selection criteria (GLMs and GAMs Multivariate exploratory r Machine learning Step and resource select State-space and Hidden Spatial point processes Other (describe) Would you say that the these cor	e.g AIC) nethods ion functions Markov models	ent ecology framework a Equally studied	are currently being more	e, less or equally studied
Model selection criteria (GLMs and GAMs Multivariate exploratory r Machine learning Step and resource select State-space and Hidden Spatial point processes Other (describe) Would you say that the these cor	e.g AIC) nethods ion functions Markov models			
Model selection criteria (c) GLMs and GAMs Multivariate exploratory r Machine learning Step and resource select State-space and Hidden Spatial point processes Other (describe) Would you say that the these corcompared to 10 years ago?	e.g AIC) nethods ion functions Markov models nponents of the movem	Equally studied	More Studied	I have no idea
Model selection criteria (c) GLMs and GAMs Multivariate exploratory r Machine learning Step and resource select State-space and Hidden Spatial point processes Other (describe) Would you say that the these corcompared to 10 years ago?	e.g AIC) nethods ion functions Markov models nponents of the movem	Equally studied	More Studied	I have no idea

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

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.)
Nadio tags (VHF or UHF based)
□ » GPS
☐ » Images (Video and static)
Acoustic telemetry
» Accelerometer
Encounter (e.g capture mark recapture, banding, direct observation)
Other (describe)
— " 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)
Nacoustic telemetry
> Accelerometer
 Encounter (e.g capture mark recapture, banding, direct observation)
>> Other (describe)
— " Cities (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
ago? (up to three) " » R " » Python " » ArcGIS " » Matlab " » SAS " » SPSS
ago? (up to three) Note that the second sec
ago? (up to three) NR Python NarcGIS Natlab SAS SPSS Nelational databases (RDBMs) Negative Sas (RDBMs) Negative Sas (RDBMs) Negative Sas (RDBMs)
ago? (up to three) Note that the second sec
ago? (up to three) NR Python NarcGIS Natlab SAS SPSS Nelational databases (RDBMs) Negative Sas (RDBMs) Negative Sas (RDBMs) Negative Sas (RDBMs)
ago? (up to three) NR Python NarcGIS Natlab SAS SPSS Nelational databases (RDBMs) Negative Sas (RDBMs) Negative Sas (RDBMs) Negative Sas (RDBMs)
ago? (up to three) Note: Relational databases (RDBMs) Note: Western and the second and the sec
ago? (up to three) NR NPython NArcGIS NMatlab NSAS NSPSS NElational databases (RDBMs) NGIS NOTHER (describe) For movement analysis, which software do you think are used less often now compared to 10 years ago? (up to three)
ago? (up to three) NR NPython NArcGIS NMatlab NSAS NSPSS NRelational databases (RDBMs) NQGIS NOTHER (describe) For movement analysis, which software do you think are used less often now compared to 10 years ago? (up to three) NR
ago? (up to three) NR NPython NArcGIS NAtlab NSAS NSPSS NEVATION Relational databases (RDBMs) NOTHER (describe) For movement analysis, which software do you think are used less often now compared to 10 years ago? (up to three) NR NPYTHON
ago? (up to three) NR NPython NArcGIS NAtlab NSAS NSPSS NElational databases (RDBMs) NOTHER (describe) For movement analysis, which software do you think are used less often now compared to 10 years ago? (up to three) NR NPython NPython NPython NARCGIS
ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three) Note that the series of ten now compared to 10 years ago? (up to three)
ago? (up to three) New Python New ArcGIS New Matlab New SAS New SPSS New Relational databases (RDBMs) New QGIS New Other (describe) For movement analysis, which software do you think are used less often now compared to 10 years ago? (up to three) New R New Python New ArcGIS New Matlab New SAS
ago? (up to three) NR NPython NArcGIS NAtlab NSAS NSPSS NElational databases (RDBMs) NOTHER (describe) For movement analysis, which software do you think are used less often now compared to 10 years ago? (up to three) NR NPYTHON NARCGIS NARCGI

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)	7
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 ag three topics; your answer may involve taxa, devices, methods or others)	o? (Please keep it to
	2
In your opinion, what will revolutionize the field in the next 10 years ? (Please keep it to three topics)	