Modelação Ecológica

AULA 14

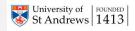
5 November 2019

14:00-15:00 - room 2.2.14 - a seminar on HMMs

15:00-16:30 - room 2.2.37 - a short course on HMMs

Théo Michelot

HMMs by Théo Michelot





University > Research portal > Researchers > Theo Michelot

Theo Michelot

Overview Research publications Research data



Theo Michelot

Statistics - Research Fellow

Postal address:

CREEM The Observatory Buchanan Gardens St Andrews United Kingdom

Email: tm75@st-andrews.ac.uk

Direct phone: +44 (0)1334 46







Théo Michelot

University of St Andrews

Verified email at st-andrews.ac.uk - Homepage

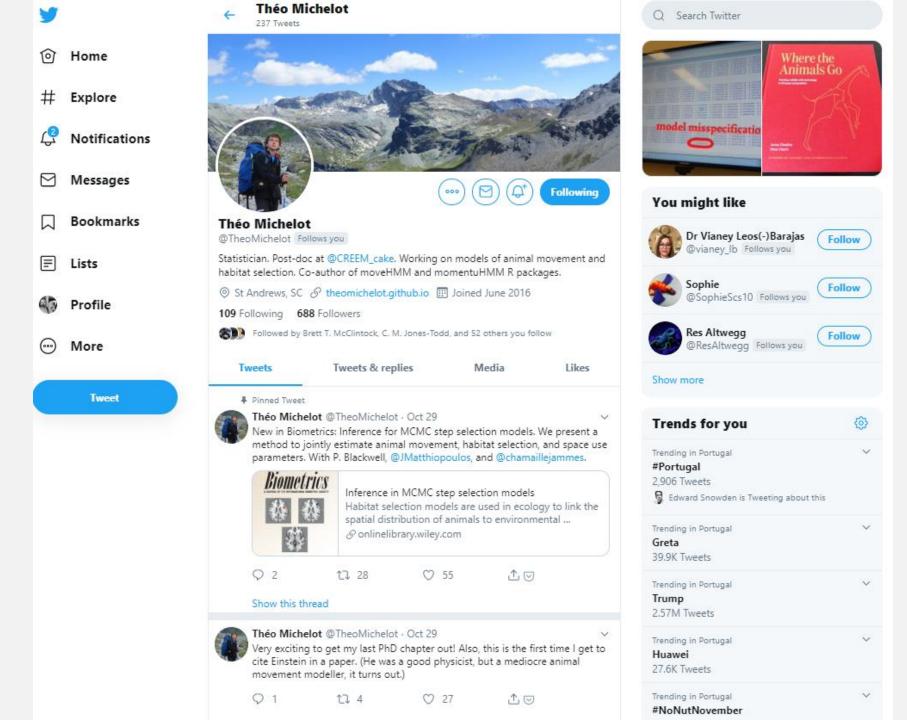
Computational statistics Statistical ecology

TITLE	CITED BY	YEAR
moveHMM: an R package for the statistical modelling of animal movement data using hidden Markov models T Michelot, R Langrock, TA Patterson Methods in Ecology and Evolution 7 (11), 1308-1315	111	2016
Estimation and simulation of foraging trips in land-based marine predators T Michelot, R Langrock, S Bestley, ID Jonsen, T Photopoulou, Ecology 98 (7), 1932-1944	29	2017
momentuHMM: R package for generalized hidden Markov models of animal movement BT McClintock, T Michelot Methods in Ecology and Evolution 9 (6), 1518-1530	27	2018
Understanding the ontogeny of foraging behaviour: insights from combining marine predator bio-logging with satellite-derived oceanography in hidden Markov models WJ Grecian, JV Lane, T Michelot, HM Wade, KC Hamer Journal of the Royal Society Interface 15 (143), 20180084	21	2018
Markov-switching generalized additive models R Langrock, T Kneib, R Glennie, T Michelot Statistics and Computing 27 (1), 259-270	16	2017

✓ FOLLOW	Cited by
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•	Toby Patterson	

Thomas Kneib Chair of Statistics, Georg-August.



Your mission for tomorrow

- I. Go to Movebank and explore the Movebank Data Repository
- 2. Find an open access data
- 3. Use it to fit an HMM to the movement data
- 4. Write a report about the analysis you made
 - Briefly describe the data
 - Do a simple EDA
 - Fit movement model
 - Present your conclusions
- 5. Send me a report by the end of the week (week ends Sunday)

