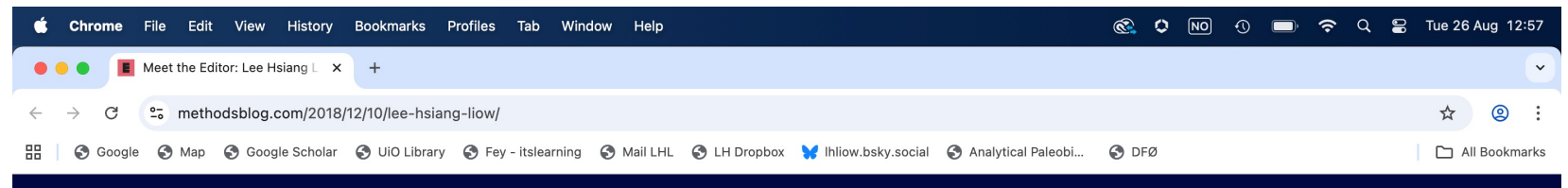


https://methodsblog.com/2018/12/10/lee-hsiang-liow/



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EDITOR PROFILES, MEETINGS

Meet the Editor: Lee Hsiang Liow

DECEMBER 10, 2018

##BES2018, #BES 2018, #LEE HSIANG LIOW, #MEET THE EDITOR

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We're meeting a second Senior Editor ahead of the British Ecological



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Models and modelling

Lee Hsiang Liow

Natural History Museum and Centre for Planetary Habitability, University of Oslo, Norway

1.9.2025 (Monday)



Friedrich-Alexander-Universität
Erlangen-Nürnberg



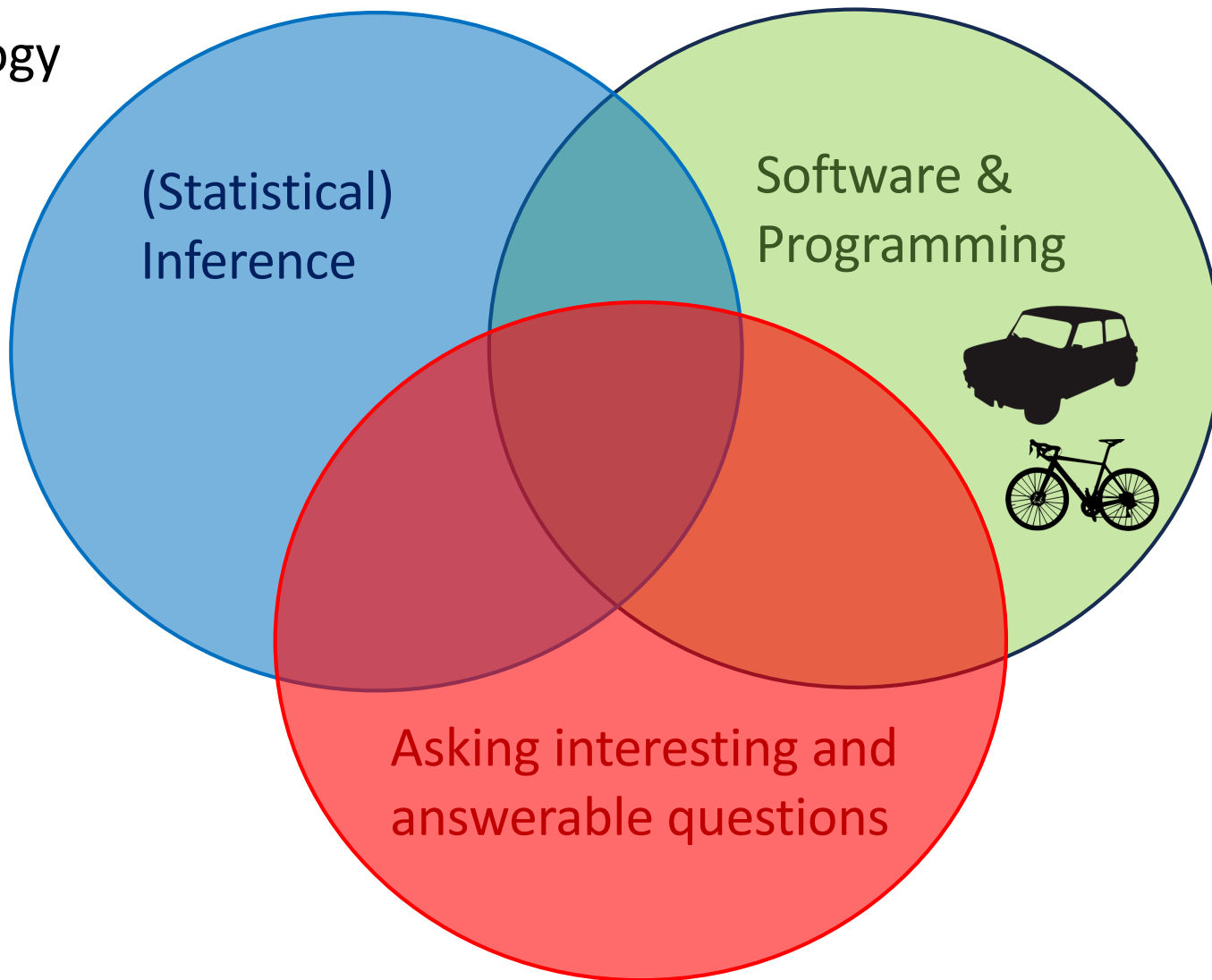
<https://driving-tests.org/wp-content/uploads/2012/05/leisure-trip.jpg>



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Paleobiology



<https://www.penn.museum/img/homepage/reskin/mind-mood.jpg>

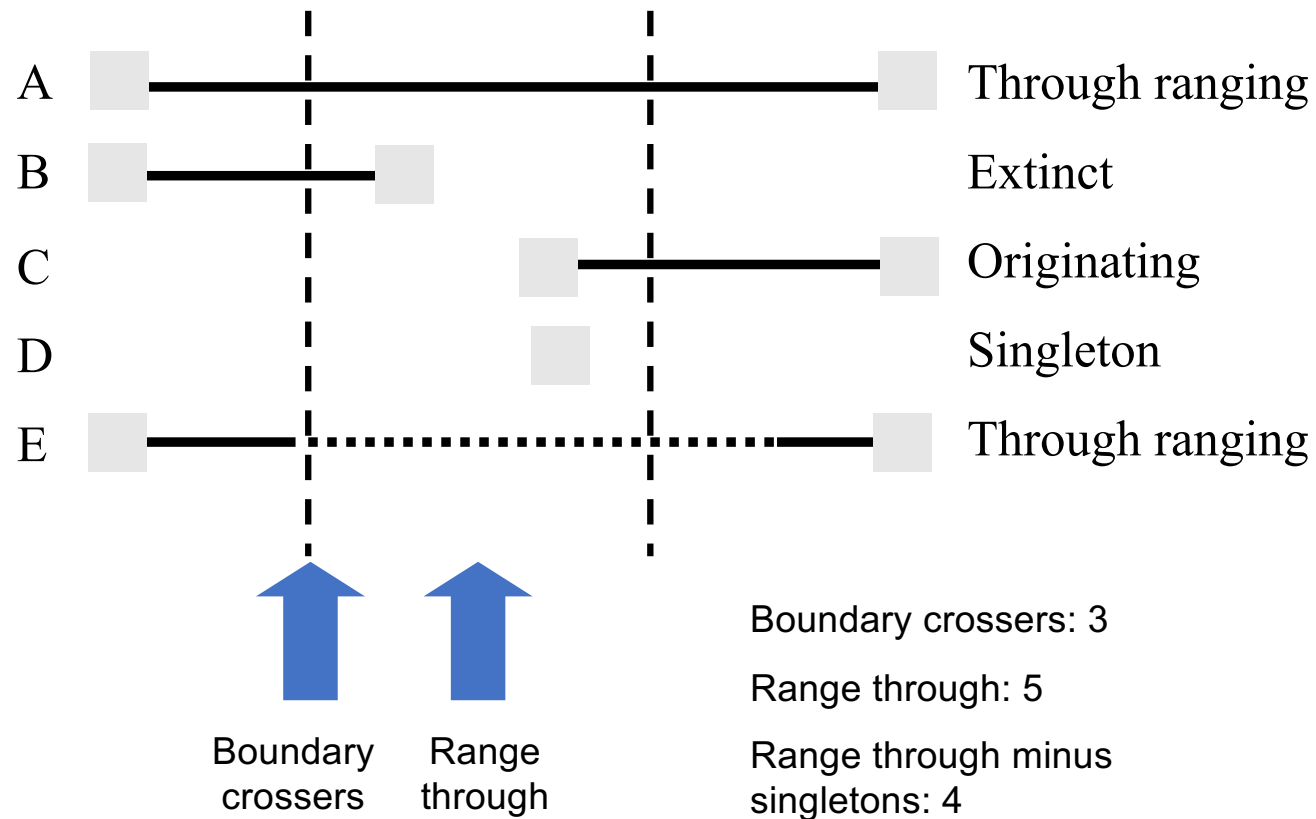


Measuring Diversity Through Time

Taxon	Time			
	1	2	3	4
A	x		x	x
B		x	x	x
C		x		
D		x		x
E	x	x		x

Draw Diversity Curves: SIB, range through, range through minus singletons, boundary crossers

Measuring Diversity





What is a model?

What is the use of a model?

All models are wrong

Some are useful

Different ones are useful under different circumstances

All have assumptions (they are hidden or unexplored sometimes)



What kinds of questions do we
(paleobiologists) ask?

Some typical questions

- How does ecological/phylogenetic/taxonomic richness through time & space and why?
- How and why do different morphological forms evolve when they do?
- How slow/fast does evolution act?
- Can we predict evolution (extinction, speciation, changes in morphology/other phenotypics)

Assumptions assumptions assumptions

- We make assumptions and “quick” judgement everyday
- Should we do that in asking science questions?
- Do we want to know “the truth” or do we just want to plot or analyze some data without digging any deeper?
- Always (try!) think about data-generating processes (see Rachel et al. lecture notes!)