Landscape Ecology Modelling & Simulation

Dr James Millington

These slides at:
cutt.ly/JM-PGT21

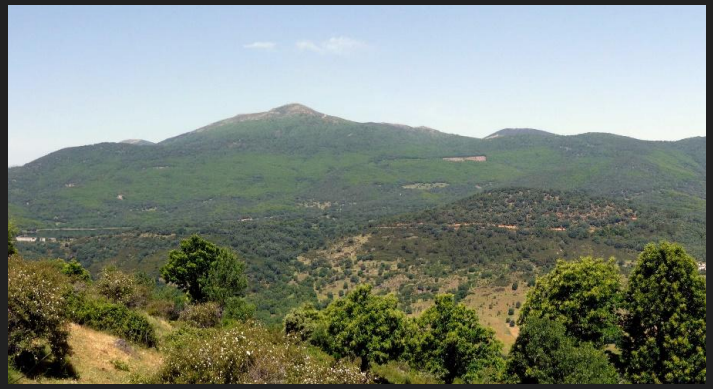
I study landscapes and how they change, often by using computer models.

These slides at:
cutt.ly/JM-PGT21

landscapemodelling.net

Research Background

Landscape Ecology



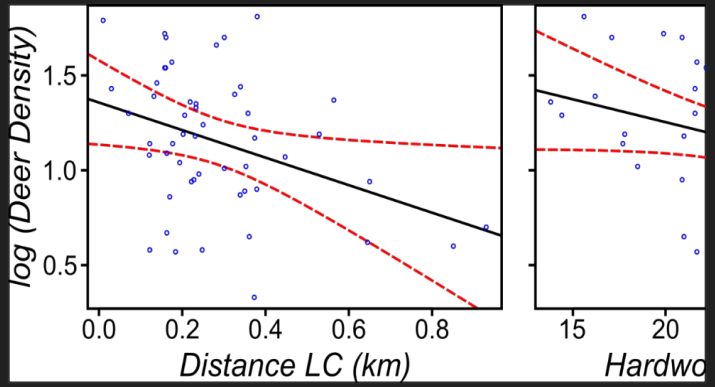
Succession-Disturbance

Coupled Human-Natural Systems

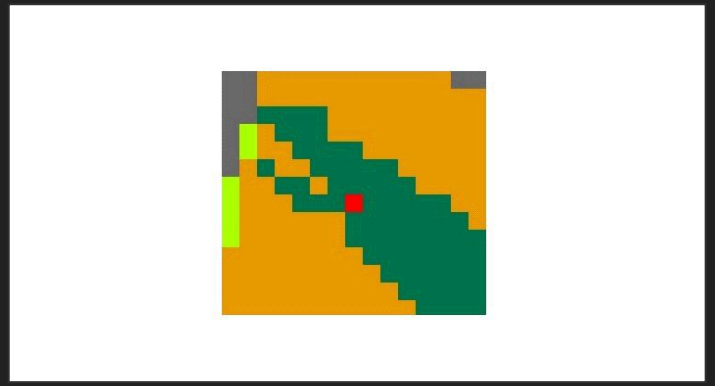
Research Background

Modelling & Simulation

Relationships & Inference



Simulating Dynamics



Landscape Change

Mapping land use/cover change
Inferring physical & human drivers of change
Forecasting future change

Fire in Mediterranean Landscapes

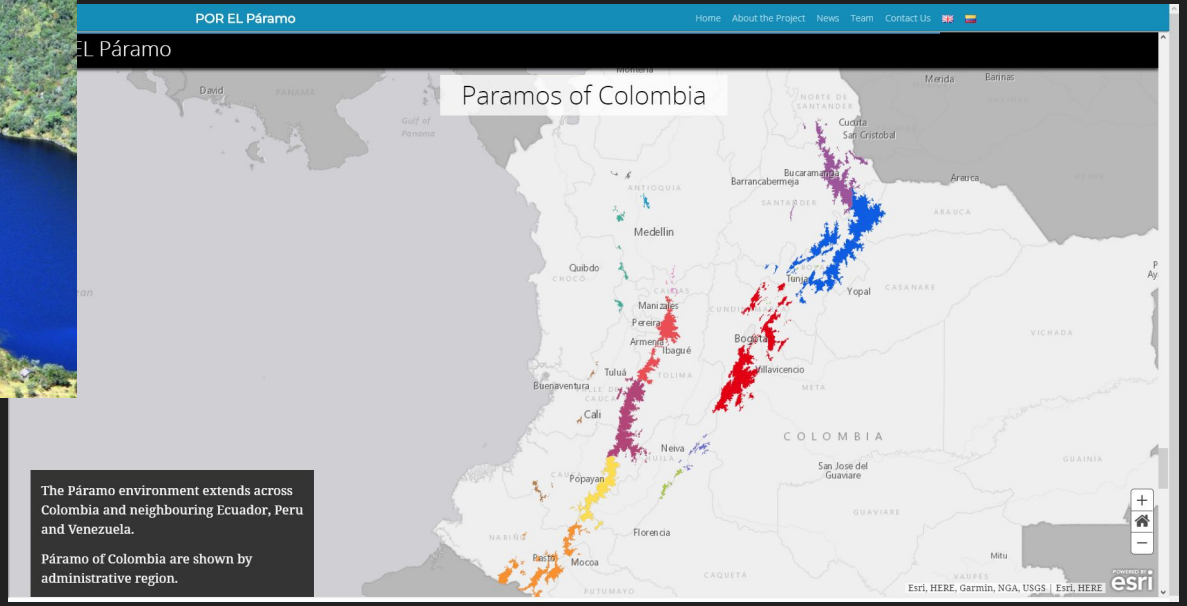
Millington et al. (2009)
Fischer et al. (2016)
Seijo et al. (2017)

Human-mediated succession-disturbance regimes

Climate change adaptation and mitigation

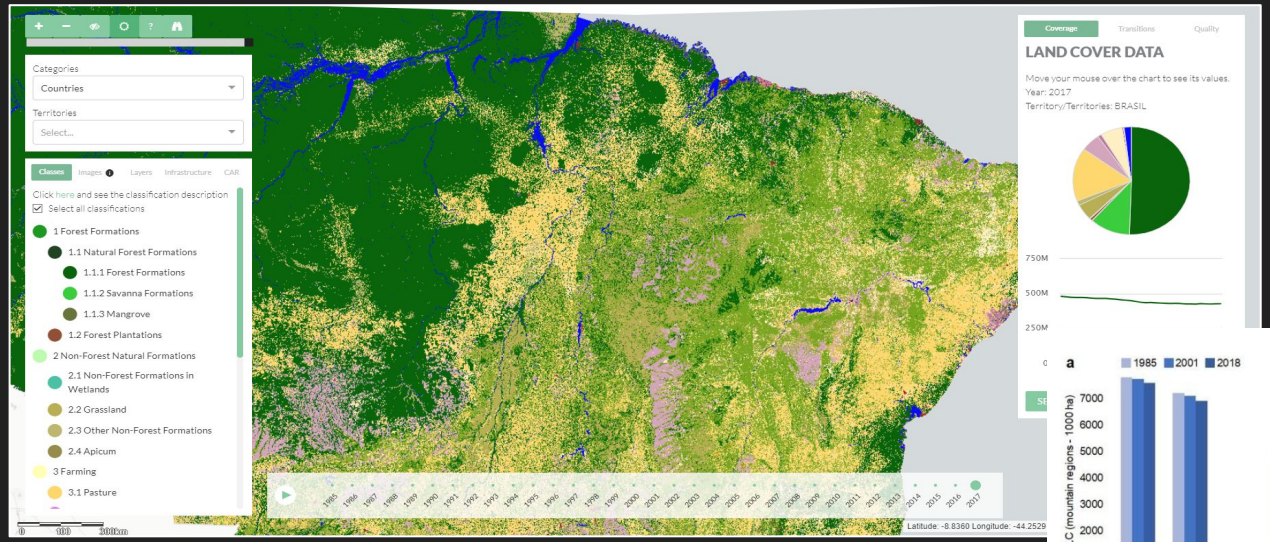
Colombian Páramo - Fire and Land Use

With Terry Dawson, Mark Mulligan, Kris Chan



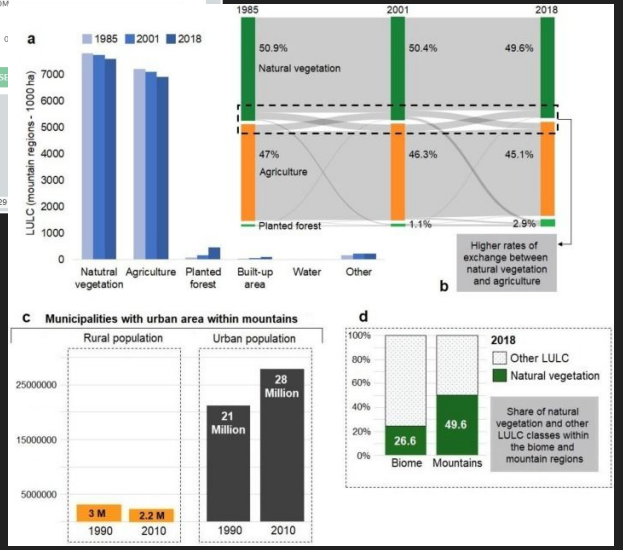
porelparamo.org

Telecoupled Land Systems



MapBiomas Data

Silva *et al.* (2020)



Build on existing modelling

Brazilian Land Use/Cover Mapping

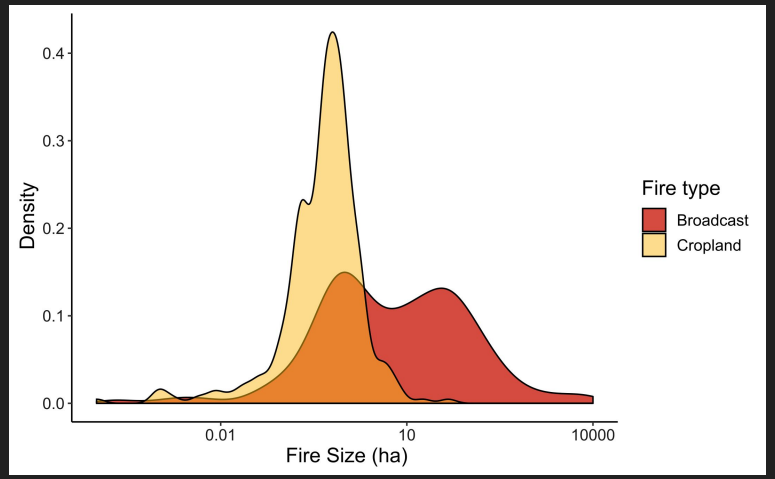
Combine with agricultural data

Leverhulme Wildfire - Global ABM

Improving representation of human fire in DVGMs

Database of Anthropogenic Fire Impacts (DAFI)

- Improve representation of fire suppression
- Examine policy responses using secondary data
- Compare DAFI to remote sensing data

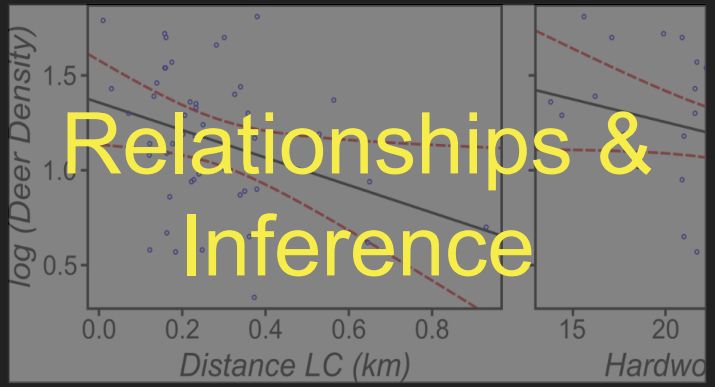


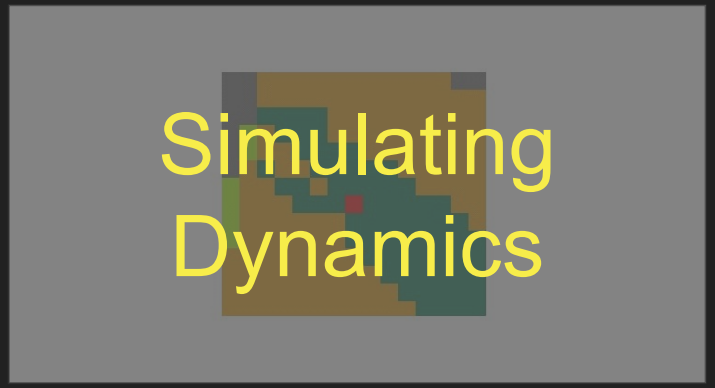
Poster

Data

Landscape Ecology

Modelling & Simulation





james.millington@kcl.ac.uk