Workshop: Next Generation Data Management in Movement Ecology

June 6–June 10: Schedule

Day 1: Monday June 6

Morning (8AM–12PM)

- Welcome speech, general introduction to the course and logistics, presentation of speakers and participants (Mathieu Basille, 8AM–8:30AM)
- TALK First things first: A data perspective (Mathieu Basille, 8:30AM–9:30AM)
- Demonstrating PostGIS (David Bucklin, 9:30AM–10AM)
- Preparation of computers and introduction to SQL — part I (Simona Picardi, 10AM–12PM)

Afternoon (1PM–5PM)

- Introduction to SQL — part II (Simona Picardi, 1PM–3PM)
- Storing tracking data in an advanced database platform: PostgreSQL (David Bucklin, 3PM–4PM)
- TALK PostGIS for storing, processing and analyzing social media data and Volunteered Geographic Information (Levente Juhász, 4PM–5PM)

Evening (6PM–9PM)

Barbecue at the Center. Food and drinks will be provided, BYOB most welcome!

Day 2: Tuesday June 7

Morning (8AM–12PM)

- Managing and modeling information on animals and sensors (David Bucklin, 8AM–10AM)
- From data to information: associating locations to animals — part I (Simona Picardi, 10AM–12PM)

Afternoon (1PM–5PM)

- From data to information: associating locations to animals — part II (Simona Picardi, 1PM–2PM)
- Spatial is not special: how to manage the locations data in a spatial database (David Bucklin, 2PM–5PM)

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Day 3: Wednesday June 8

Morning (8AM–12PM)

- Environmental layers: integration of spatial ancillary information (David Bucklin, 8AM–9:30AM)
- How to extract environmental information related to location data (David Bucklin, 9:30AM–10:30AM)
- Data quality: how to detect and manage outliers (Simona Picardi, 10:30AM–12PM)

Afternoon (1PM–5PM)

- TALK From locations to steps: the movement model (Mathieu Basille, 1PM–2PM)
- The movement model: implementation (Simona Picardi, 2PM–5PM)

Evening (6PM–7PM)

Guided tour of the python facility at the Center, featuring a python equipped with a GPS tag on display (Brian Smith).

Day 4: Thursday June 9

Morning (8AM–12PM)

- TALK Accelerometers: investigating animal's activity (Anne Berger, 8AM–9AM REMOTE)
- Integrating activity data into the database (David Bucklin, 9AM–10AM)
- Working with activity data: what the animal was doing there? (Simona Picardi, 10AM–12PM)

Afternoon (1PM–5PM)

- There and back again — part I: Analyzing movement data in the R environment (Simona Picardi, 1PM–3PM)
- There and back again — part II: Connecting PostGIS and R (Mathieu Basille, 3PM–5PM)

Evening (6PM–9PM)

Meeting in a neighborhood bar (TBD), not covered by the organization!

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Day 5: Friday June 10

Morning (8AM–12PM)

- TALK ZoaTrack: A web-based platform for assessing animal movement and space use (Hamish Campbell, 8AM–9AM REMOTE)
- There and back again — part III: Extending PostGIS with Pl/R (Mathieu Basille, 9AM–11AM)
- TALK Spatial database at work for collaborative science: some example from Eurodeer project (Ferdinando Urbano, 11AM–12PM REMOTE)

Afternoon (1PM–5PM)

- The movement model: recap and integration with the database (David Bucklin, 1PM–3PM)
- TALK Walking down an uncertain path: studying the movement continuum of large herbivores through the Eurodeer collaborative initiative (Francesca Cagnacci, 3PM–4PM REMOTE)
- Concluding remarks (Mathieu Basille, 4PM–5PM)

Day 6: Saturday June 11

Field trip to Everglades National Park (ENP): departure from FLREC around 7AM to allow for a full exploration of ENP, and return to the Center between 3PM and 4PM.