

Summer Course

Next Generation Data Management in Movement Ecology

San Michele all'Adige, Trento, Italy

AFFILIATIONS AND BIOSKETCHES OF SPEAKERS

FRANCESCA CAGNACCI – Organizer, Speaker

Department of Biodiversity and Molecular Ecology, Research and Innovation Centre, Fondazione Edmund Mach, Via E. Mach 1, 38010 San Michele all' Adige (TN), Italy

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Francesca is Senior Animal Ecologist at Fondazione Edmund Mach, Trento, Italy. Her research interest are behavioural and conservation ecology of mammals, with emphasis on ecological determinants of animal movement, social interactions, and resource use. She is especially interested in the effects of climate and global change use (habitat change, human activities, management practices and conservation measures) on animal spatial distribution, as well as ecology of wildlife diseases, host-parasite dynamics and disease persistence. She pursues her research interest through the application of new technologies and approaches in animal ecology (specifically, Bio-logging via GPS telemetry and Wireless Sensor Networks). She is initiator and scientific coordinator of the EURODEER (www.eurodeer.org) research consortium.

FERDINANDO URBANO – Teacher, Speaker

Free lance consultant

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Ferdinando works as spatial analyst (free lance consultant) for environmental modelling and management with specific expertise in GIS and spatial database. He has 15 years of professional experience in Europe (Germany, Italy, Norway, Portugal, Spain), Africa (Guinea Bissau, Mali, Morocco, Mozambique, Niger, Tanzania), Asia (Nepal, Pakistan), and Middle East (Lebanon) in a wide range of technical domains (wildlife management, food security, forestry, agriculture, rural

development) with research institutes, universities, international organizations and private companies.

MATHIEU BASILLE – Teacher, Speaker

University of Florida, Fort Lauderdale Research and Education Center, 3205 College Avenue, Fort Lauderdale, FL 33314, USA

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During his PhD and later postdocs, Mathieu investigated space use and movement of large mammals, notably lynx and caribou in France, Norway and Canada. Recently hired as Assistant Professor at the University of Florida, he is focusing on the integration of Movement Ecology in the broader context of Landscape Ecology, to understand the factors driving animal distributions, using various key species, such as wood stork or sea turtles

ANTONIO GALEA – Teacher

Free lance consultant

Email: antonio.galea@gmail.com

Antonio is a freelance programmer and system manager, with many years of professional experience in OpenSource tools. He has followed projects as varied as scientific laboratory automation, complex web application building, data logging with embedded Linux systems, HPC cluster configurations, and even provided technical support for digital artistic creations

FEDERICO OSSI – Technical Assistant, Speaker

Wildlife biologist

Email: Federico.ossi@gmail.com

Federico is a biologist, who got his master in Biodiversity and Evolution at Milan University. Then, he made a PhD on the movement ecology of roe deer, with a shared project between Edmund Mach Foundation and Lyon University. During his PhD, Federico got acquainted with database management within the context of the Eurodeer collaborative project, which he used to perform some large scale analysis on roe deer ecology. His scientific interests cover movement ecology of large mammals, wildlife management, snow ecology and biologgging innovation applied to wildlife monitoring.

HASSAN MOUSTAHDID – Speaker

NOAA/ U.S. Integrated Ocean Observing System (U.S. IOOS), Silver Spring, MD. 20910, USA

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Dr. Hassan Moustahfid is the Project Manager of the IOOS Animal Telemetry Network Data Assembly Center (ATN DAC), a capability created to integrate diverse animal telemetry data types from archival, satellite, and acoustic tag platforms that originate from a variety of individual researchers and large programs using consistent metadata standards and best practices. Dr. Moustahfid is also a Marine Biologist with the National Oceanic and Atmospheric Administration (NOAA), United States Integrated Ocean Observing System (U.S. IOOS) based in Silver Spring, Maryland, USA. Previously he was a Research Project Manager with the Ocean Biogeography Information System (OBIS), International Secretariat based at Rutgers University in New Jersey, USA. Today he will be talking about “U.S. IOOS Data Management for Marine Animal Telemetry”.

DUCCIO ROCCHINI – Speaker

Department of Biodiversity and Molecular Ecology, Research and Innovation Centre, Fondazione Edmund Mach, Via E. Mach 1, 38010 San Michele all' Adige (TN), Italy

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Duccio is permanent researcher in the Markus Neteler's GIS & RS group. He is devoted to all aspects of Geographical Modelling and Spatial Ecology. His research field covers ecological informatics, ecological heterogeneity and biodiversity estimate by satellite imagery, free and open source software for spatial ecology, and statistical analysis of spatial and ecological data

HAMISH CAMPBELL – Speaker

University of New England – Movement and Landscape Ecology Lab, 11 Hills Beach Rd, Biddeford, ME 04005, United States

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Hamish is an animal ecologist with over 20 years research experience. He has published over 80 papers in referred journals or conference proceedings, and edited two book chapters. He currently leads the Movement & Landscape Ecology Laboratory at the University of New England, which studies the animal-habitat relationship across all taxa. As well as field-based research Hamish is interested in big-data and the development of collaborative cyber-infrastructure to improve the sharing and reuse of ecological data between scientists and natural resource managers. He is the creator and scientific chair of the web-based, animal home-range density estimation, platform ZoaTrack.org.

DAVID BUCKLIN – Technical Assistant, Teacher

Department of Wildlife Ecology and Conservation - University of Florida, Fort Lauderdale
Research and Education Center, Gainesville, FL 32603, United States

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David is a geographer that specializes in geospatial technologies and their use in conservation. He currently works in Dr. Mathieu Basille's lab at the University of Florida, where his work includes managing spatial databases, ecological modelling, and developing GIS/statistical tools. He works with biological data from a variety of species of interest in South Florida, and he currently manages databases for ongoing sea turtle and wood stork tracking projects.

TIMOTHY GILES – Speaker

SLU (Swedens Agricultural University) IT department, Almas Allé 10, 750 07 Uppsala, Sweden

Email: timothy.giles@slu

Timothy Giles is a system architect and developer who works for the IT department at SLU in Sweden. Having found his wife in Gnomeregan during 2007, he left the UK and moved to Sweden in 2010. With the move came a little baby boy called Charlie and a job opportunity at swedens agricultural university. The job initially was to design and build a replacement for the WRAM database. After finishing this 3 year development, he continued working on WRAMs ongoing development as well as other systems for SLU. Prior to his move to Sweden, Tim worked for Centrica in the UK. His work involved system design and development of Centricas Health and Safety management system and quality assurance system.

NICOLA GADOW – Speaker

Vectronic Aerospace GmbH, Carl-Scheele-Straße 12, 12489 Berlin, Germania

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After studying veterinary medicine at Freie Universität Berlin, Nicola started working life in a veterinary practice for pets in Berlin (2002 – 2011). She changed job in 2011 to sales force team of ReboPharm GmbH (wholesaling for veterinarians), since 2013 she is working in customer support team of VECTRONIC Aerospace GmbH with responsibility for European and African customers. VECTRONIC Aerospace GmbH was founded in 2010 by the space engineers Robert Schulte and Pius Butz in Berlin. The company is specialized on space technology as well as high quality GPS collars and connected products for wildlife telemetry studies.

NICO VAN DE WEGHE – Speaker

Ghent University, Faculty of Sciences, Department of Geography, CartoGIS Research Group
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Nico is specialized in the tracking of moving objects; visualizing, analyzing and modeling of spatio-temporal information; and cognition and linguistics of moving objects. On the one hand he has a broad experience in fundamental research with respect to handling moving objects (going from accuracy issues in data acquisition, over analyzing, reasoning, modeling and data-mining toward visualizing and visual analytics). On the other hand, he has gained a wide experience in setting up practical experiments in the area of Geographical Information Technology, more specifically with respect to the research of the movement behaviour of persons at mass-events (such as Rock Werchter, a major rock festival with about 300,000 people over 4 days; the Ghent Festivities, Ghent Light Festival, I Love Techno, Tour of Flanders, ...) by use of the “Bluetooth technology” in combination with smartphones (GPS, WiFi).

ANNE BERGER – Speaker

Leibniz-Institute for Zoo and Wildlife Research, Department Evolutionary Ecology, Alfred-Kowalke-Str. 17 D-10315 Berlin Germany

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Anne is scientist in behavioural ecology, animal behaviour and conservation. She is leader of the work group “Chronoecology” and the project “Hedgehogs in Berlin”. Her research fields cover chronobiology, wildlife telemetry, stress detection in wildlife and animal welfare. She mainly works on Przewalski horses, European hedgehog and roe deer

SARAH DAVIDSON – Speaker

Movebank Data Curator - Max Planck Institute for Ornithology, Am Obstberg 1, 78315 Radolfzell, Germany

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Sarah has an M.S. in Geological Sciences from The University of Texas at Austin and has been working as the data curator for Movebank (movebank.org) since 2011. She helped to design the Movebank Data Repository and works with data owners to review, prepare and publish data packages in the repository.

MARTIN STORHAS – Speaker

Free lance consultant - Max Planck Institute for Ornithology, Am Obstberg 1, 78315 Radolfzell, Germany

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Martin is doctor in evolutionary biology. He got a certificate as Oracle database developer and Java programmer. He worked as software developer at a Munich company (Content Management Systems), and since 2008 he is software developer in the Movebank Project. He is father of a two-year-old girl, he likes to hike and climb, travel and read.

JOHANNES DE GROEVE – Technical Assistant

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Johannes has a master in Archaeology and Geography both from Ghent University. He just started his second year of his PhD (supervisors Dr. Francesca Cagnacci/Prof. Dr. Nico Van de Weghe) focusing on spatio-temporal patterns in habitat use by animals, with Roe Deer (*Capreolus capreolus*) as study species. He is also database curator for red deer data of the EURODEER spatial database.