

Diagnosics & Remedial Measures for SLR
(Ch 3)
Week 5 – Tuesday
Applied Regression Analysis (STAT 757)

Paul J. Hurtado

16 Feb, 2016

Department of Agriculture, Nutrition and Veterinary Sciences

SEMINAR

Dr. Luis Moraes

Postdoctoral Research Fellow, Dept. of Animal Science at UC Davis

Candidate for Assistant Professor Position in Beef Cattle
Production

Will Present:

**Statistical and Optimization Modeling of
Beef Cattle Production**

February 17, 2016 at 12:00pm in FA 214

Department of Agriculture, Nutrition and Veterinary Sciences

LECTURE

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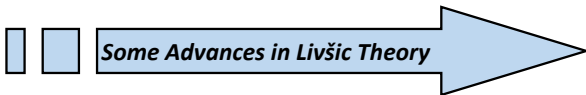
Will Present:

**Mixed Model Analysis for Agriculture,
Nutrition and Veterinary Sciences**

February 18, 2016 at 12:00pm in FA 109

Tuesday, February 16, 2016

2:30P.M.—3:30P.M., MS 321

***Some Advances in Livšic Theory*****Alistair Windsor**

Associate Professor

Department of Mathematical Sciences

The University of Memphis

Abstract:

Let f be a diffeomorphism of a compact manifold M . A cohomology equation over f is an equation of the form

$$\varphi_{f(x)} = \eta_x \cdot \varphi_x$$

where $\eta : M \rightarrow G$ is given and we are to determine $\varphi : M \rightarrow G$. G is taken to be a group of some type and \cdot is the group operation.

When f is a topologically transitive Anosov diffeomorphism and G is a Lie group the question of existence of solutions to this cohomology equation were studied by A. N. Livšic in the early 70s.

When G is taken to be the group of diffeomorphisms on a compact manifold N the usual Lie group arguments no longer apply. This problem naturally arises when considering certain rigidity results. Nițică and Török solved this problem for some compact manifolds N . We will discuss our refinement and extension of the results of V. Nițică and A. Török. This is joint work with Rafael de la Llave.

All these results use “localization” assumptions on the size of η in G . Recently these localization assumptions have been eliminated, at least for matrix Lie groups, by B. Kalinin.

Reading Data

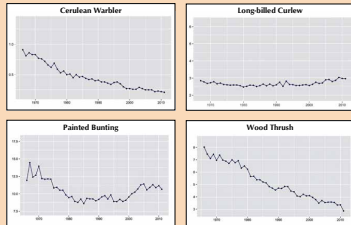
Generally avoid using Rstudio's menu-driven capabilities
UNLESS you save the code generated in your R script!

Download:

www.pauljhurtado.com/teaching/SP16/week5a.zip



North American Breeding Bird Survey: Changes in Species Sightings Over Time



Since 1966, experienced observers in the North American Breeding Bird Survey have been monitoring more than 400 avian species along nearly 2,000 randomly chosen roadside routes. The charts above show the change in the average number of individual birds detected along BBS routes within the range of these four species. Data courtesy Paul J. Hartsell of The Ohio State University. The North American Breeding Bird Survey is a cooperative effort between the U.S. Geological Survey's Patuxent Wildlife Research Center and Environment Canada's Canadian Wildlife Service.

beavers and un-suppressed wildfires. These teams hope to increase crucial breeding habitat for birds including Golden-winged, Chestnut-sided, and Cerulean warblers; Red-eyed Vireo; Indigo Bunting; Yellow-breasted Chat; and American Redstart.

Similar restoration efforts are now underway in the Central Hardwood forests in the United States. Meanwhile, on the wintering grounds, groups including ABC are reconnecting forest fragments by restoring forest corridors with help from local

landowners. ABC and other groups are also working with ranchers on grazing practices that benefit both cattle and migratory birds.

By all accounts, a large part of the job ahead involves finding ways to make these programs work on a landscape scale, both ecologically and economically. A grand attempt to move in this direction is expected to take place when ABC hosts the next meeting of Partners in Flight, which will take place in Utah in late August. (See page 13 for more information).

There, diverse groups of experts will develop large-scale "conservation business plans" for key nonbreeding habitats. "We plan to create a blueprint for future conservation action," says David Younkman, ABC's Vice President for Conservation.

What does it all add up to? At this point it's hard to say, primarily because it will be years before the impact of the work that has been done on behalf of declining migratory birds starts to show up in the data collected by the North American Breeding Bird Survey and other research.