Econ 723  
Topics in Econometrics  
Fall 2012-Emory  
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Office hours: Mondays 4-5 pm, Tu 2-4 pm, and by Appointment (Feel free to email me when you need to meet).  
Class hours: MW 2-4

Course Requirements:  
At least Econ 520-521 sequence at Emory, or by instructor's approval.

Grading:  
1. A midterm exam  
2. At least one term paper the subject and outline of which should be cleared with the instructor before the end of the fourth week.  
Typed papers are due no later than ONE WEEK before exam week. Papers will be invited for presentation. More than one paper will be required when several students collaborate, with transparent designation of assignments and roles.

Reading Material:  
The following texts and "handbooks" are examples and will complement the papers/articles which are partly listed below for the topics below.  
YOU MAY ALSO FIND THE PROGRAM NP, AND ITS COMPANION DESCRIPTION VERY HELPFUL. See JEFFREY RACINE'S webpage AND INSTALL R FOR FREE!

J. Heckman and E. Leamer, Handbook of Econometrics, Vols 5, 6A-6B (HL)  
R. Engle and D. McFadden, Handbook of Econometrics, Volume IV, North-Holland.(EM)  
Griliches and Intrilligator, Handbook (s) of Econometrics, Volume II; North-Holland (GI2).

T. Cover and J. Thomas, Elements of Information Theory, Wiley series in Communications (CT).  

Selected (Main) Topics:  
Note: Many of the papers cited here, particularly my own, are merely examples which also offer convenient citations to other references on each topic. Some papers are useful
under several topics. The papers' titles are suggestive of the topics/applications which may be emphasized.

(This list will be regularly revised and extended).

1. **Entropy and Information Theory (IT):**
   (With applications in Finance and Empirical Welfare Economics, model selection, Prediction, dependence, testing, growth convergence, nonlinearity, density and copula estimation).

The CT text.


Gianerinni, Maasoumi and Dagum (2012), "A POWERFUL ENTROPY TEST FOR LINEARITY" AGAINST NONLINEARITY IN TIME SERIES", mimeo, Emory.


The Text by Harry JOE (Dependence, copulas, risk measures...)

The text by Nelsen (Copulas)

2. Empirical Welfare/Mobility measures


Biewens, M. (2002), J of Econometrics (inference on mobility/poverty measures, GAUSS software)


3. Ordering Distributions and Prospects:
   (Emphasis on Testing for Stochastic Dominance with applications in economics and finance. Other applications in program evaluation).


"A nonparametric Test for equality of Distributions with Mixed continuous and categorical data", with Qi Li and Jeff Racine, Journal of Econometrics, 2009.


4. Growth Convergence


5. **Prediction and forecasting/shrinkage/mixed forecasts**


6. **Program Evaluation and Treatment Effects** (ask for a complete separate list on this topic)


Wooldridge's Text (Chapter 8)

A very good text by Cameron and Trivedi as well as its Stata manual.


Phillipe van Kerm (2009)???????? Also on Copulas.
A extended reading list on this topic is provided in a semester course (Econ 721) focused on it, with several special issues of journals, emphasizing the work of Heckman and his collaborators/students, and recent advances on quantile regressions in this area, exemplified by recent work of Abadi, Imbens, Chernozukov, Angrist, Blundell, Smith, and others.