

# hEART – PhD summer school

at

**Technical University of Denmark (DTU)**

**the 8<sup>th</sup> of September 2015**

On behalf of the European Association for Research on Transportation, we are happy to present the 4<sup>th</sup> PhD summer school.

The summer school will take place at DTU in Glassalen, building 101

## Program:

Time	Subject and speaker
9.00-9.15	Welcome by Mogens
9.15-10.45	1. "Households' location choice, transport accessibility and car ownership" by Ismir Mulalic
10.45-11.00	Coffee break
11.00-12.30	2. "Dynamic discrete choice models and route choice analysis: recent advances" by Emma Frejinger
12.30-13.30	Lunch
13.30-15.00	3. "Detecting and modelling non-compensatory behaviour in transportation" by C. Angelo Guevara
15.00-15.30	Coffee break
15.30-17.00	4. "Bayesian methods in transportation" by Thijs Dekker

Suggested literature:

1.

Bayer, P. and C. Timmins. 2007. Estimating equilibrium models of sorting across locations. Economic Journal, vol. 117(518), pp. 353-374.

Kuminoff, N.V., V.K. Smith and C. Timmins. 2012. The new economics of equilibrium sorting and policy evaluation using housing markets. *Journal of Economic Literature*, 51(4), pp. 1007-1064.

2.

Aguirregabiria, V. and Mira, P. (2010). Dynamic discrete choice structural models: A survey, *Journal of Econometrics* 156:38-67. (Sections related to single-agent models)

Fosgerau, M., Frejinger, E. and Karlström, A. (2013). A link based network route choice model with unrestricted choice set, *Transportation Research Part B* 56(1):70-80.

Rust, J. (1987). Optimal replacement of GMC bus engines: An empirical model of Harold Zurcher, *Econometrica* 55(5):999-1033.

Textbook on dynamic programming

Bertsekas, D.P. (2005). *Dynamic programming and optimal control*, 3rd edition, Athena Scientific.

3.

Chorus, C. G., & Bierlaire, M. (2013). An empirical comparison of travel choice models that capture preferences for compromise alternatives. *Transportation*, 40(3), 549-562.

Cohen, J. (1992). Statistical power analysis. *Current directions in psychological science*, 98-101.

Huber, J., Payne, J. W., & Puto, C. (1982). Adding asymmetrically dominated alternatives: Violations of regularity and the similarity hypothesis. *Journal of consumer research*, 90-98.

van Cranenburgh, S., Guevara, C. A., & Chorus, C. G. (2015). New insights on random regret minimization models. *Transportation Research Part A: Policy and Practice*, 74, 91-109.

4.

Daziano et al. (2013) – Transport reviews – Computational Bayesian statistics in Transportation Modelling

<http://www.tandfonline.com/doi/pdf/10.1080/01441647.2013.829890>

Train (2009) – Discrete choice methods with simulation – Chapters 9 and 12 –Drawing from densities - Bayesian procedures.

[http://eml.berkeley.edu/books/choice2nd/Ch09\\_p205-236.pdf](http://eml.berkeley.edu/books/choice2nd/Ch09_p205-236.pdf)

[http://eml.berkeley.edu/books/choice2nd/Ch12\\_p282-314.pdf](http://eml.berkeley.edu/books/choice2nd/Ch12_p282-314.pdf)

Suggested textbook on Bayesian econometrics:

Koop (2003) *Bayesian econometrics*