

# NORSI (Norwegian Research School in Innovation)

course on

## 'Survey of Quantitative Research'

CIRCLE, Lund University, Sweden, Monday 5<sup>th</sup> December – Friday 9<sup>th</sup> December 2016

Coordinators/Course leaders: Martin Andersson ([martin.andersson@circle.lu.se](mailto:martin.andersson@circle.lu.se)) Olof Ejermo ([olof.ejermo@circle.lu.se](mailto:olof.ejermo@circle.lu.se)) Torben Schubert ([Torben.schubert@circle.lu.se](mailto:Torben.schubert@circle.lu.se)) Martin Srholec ([martin.srholec@circle.lu.se](mailto:martin.srholec@circle.lu.se)) Pierre-Alexandre Balland ([p.balland@uu.nl](mailto:p.balland@uu.nl))

**Preparation:** Bring your own pc and access /download the software STATA .

### Program

#### Monday 5<sup>th</sup> December:

9.30-10.30: Official opening: Martin Andersson

10.30-12.00: Martin Srholec: Overview of Quantitative Research Methods in Innovation Studies

12.00-13.15: Lunch

13.15-15.00: Martin Srholec: Basic techniques for innovation data analysis, Part I: Statistical inferences and comparisons of groups

15.00-15.15: Coffee

15.15-18.00: Martin Srholec: Basic techniques for innovation data analysis, Part II: Introducing regression analysis

**\*\*\*Readings for these lectures (required) \*\*\***

*Kennedy, P. (2008). A Guide to Econometrics (6 ed.): Chapters 1 through 4 and 22*

*Wooldridge JM (2005), Introductory Econometrics: Chapters 1-4*

*Dean, M. A., Shook, C. L., & Payne, G. T. (2007). The Past, Present, and Future of Entrepreneurship Research: Data Analytic Trends and Training1. Entrepreneurship Theory and Practice, 31(4), 601-618*

*Shook, C. L., Ketchen, D. J., Cycyota, C. S., & Crockett, D. (2003). Data analytic trends and training in strategic management. Strategic Management Journal, 24(12), 1231-1237.*

Tuesday 6<sup>th</sup> December:

10.15-12.00: Olof Ejermo: Methods and applications using innovation count data part I

12.00-13.15: Lunch

13.15-15.00: Olof Ejermo: Methods and applications using innovation count data part II

15.00-15.15: Coffee

15.15-17.00: Olof Ejermo: Lab session

\*\*\*Readings for these lectures (required) \*\*\*\*

SMITH, K. 2005. *Measuring innovation*. In: FAGERBERG, J., MOWERY, D. C. & NELSON, R. R. (eds.) *The Oxford Handbook of Innovation*. New York: Oxford University Press

VAN DER PANNE, G. 2007. *Issues in measuring innovation*. *Scientometrics*, 71, 495-507.

JAFFE, A. B., TRAJTENBERG, M. & HENDERSON, R. 1993. *Geographic Localization of Knowledge Spillovers as Evidenced by Patent Citations*. *Quarterly Journal of Economics*, 108, 577-598

Wednesday 7<sup>th</sup> December:

9.15-12.00: Pierre-Alexandre Balland: Social network analysis in innovation studies

12.00-13.00: Lunch

13.00-15.00: Pierre-Alexandre Balland: Lab Session I

15.00-15.15: Coffee

15.15-18.15: Pierre-Alexandre Balland: Lab session II

\*\*\*Readings for these lectures (required) \*\*\*\*

Giuliani, E., & Bell, M. (2005). *The micro-determinants of meso-level learning and innovation: evidence from a Chilean wine cluster*. *Research policy*, 34(1), 47-68.

Ter Wal, A. L., & Boschma, R. A. (2009). *Applying social network analysis in economic geography: framing some key analytic issues*. *The Annals of Regional Science*, 43(3), 739-756.

*Balland, P. A., De Vaan, M., & Boschma, R. (2013). The dynamics of interfirm networks along the industry life cycle: The case of the global video game industry, 1987–2007. Journal of Economic Geography, 13(5), 741-765.*

*Boschma, R., Balland, P.A. and Kogler, D. (2015) Relatedness and Technological Change in Cities: The rise and fall of technological knowledge in U.S. metropolitan areas from 1981 to 2010, Industrial and Corporate Change, 24 (1): 223-250.*

Thursday 8<sup>th</sup> December:

09.15-12.00: Torben Schubert: Survey design, including cluster and factor analysis

12.00-13.15: Lunch

13.15-15.00: Torben Schubert: Hypothesis testing using Community Innovation Survey data

15.00-15.15: Coffee

15.15-17.00: Torben Schubert: Lab session

\*\*\*Readings for these lectures (required) \*\*\*\*

*Wooldridge JM (2005), Introductory Econometrics: Chapter 17*

Friday 9<sup>th</sup> December:

9.15-12.00: Martin Andersson: Longitudinal data analysis - methods and applications in innovation studies part I

12.00-13.15: lunch

13.15-14.45: Martin Andersson: Longitudinal data analysis - methods and applications in innovation studies part II

14.45-15.00: Coffee

15.00-17.00: Lab session

\*\*\*Readings for these lectures (required) \*\*\*\*

*Manski, C (2003), Identification Problems in the Social Sciences and Everyday Life, Southern Economic Journal, 70 (1), pages 11-21*

*Kennedy, P. (2008). A Guide to Econometrics (6 ed.): Chapter 18*

Andersson, M, J. Klaesson and J.P Larsson (2014), "The Sources of the Urban Wage Premium by Worker Skills – spatial sorting or agglomeration economies?", *Papers in Regional Science*, 93 (4), 727-747

## Evaluation

To obtain 5 ECTS point requires active participation during the course as well as an accepted paper of 3.000-4.000 words demonstrating competence in using quantitative methods. The paper should be based on the topic of the PhD thesis and reflect literature used in the course. If quantitative methods will not be used in the thesis a paper answering given tasks could substitute a normal paper. However, the concrete form of the written delivery can be further discussed during the course.

## Practical information

### How to get to Lund:

The closest international airport to Lund is **Copenhagen Airport** (also known as "Kastrup"), in Denmark. The train connection from Copenhagen Airport to Lund is fast (35 minutes) and frequent (every 20 minutes). Train tickets can be purchased from the "Skånetrafiken" ticket machines in the arrivals hall, near the escalators going down to the train platform. You can pay in Euros, Swedish kronor or Danish kronor, and you can use a debit/credit card with a chip. The journey will take you over the Öresund Bridge connecting Denmark to Sweden and via Malmö central station to Lund central station.

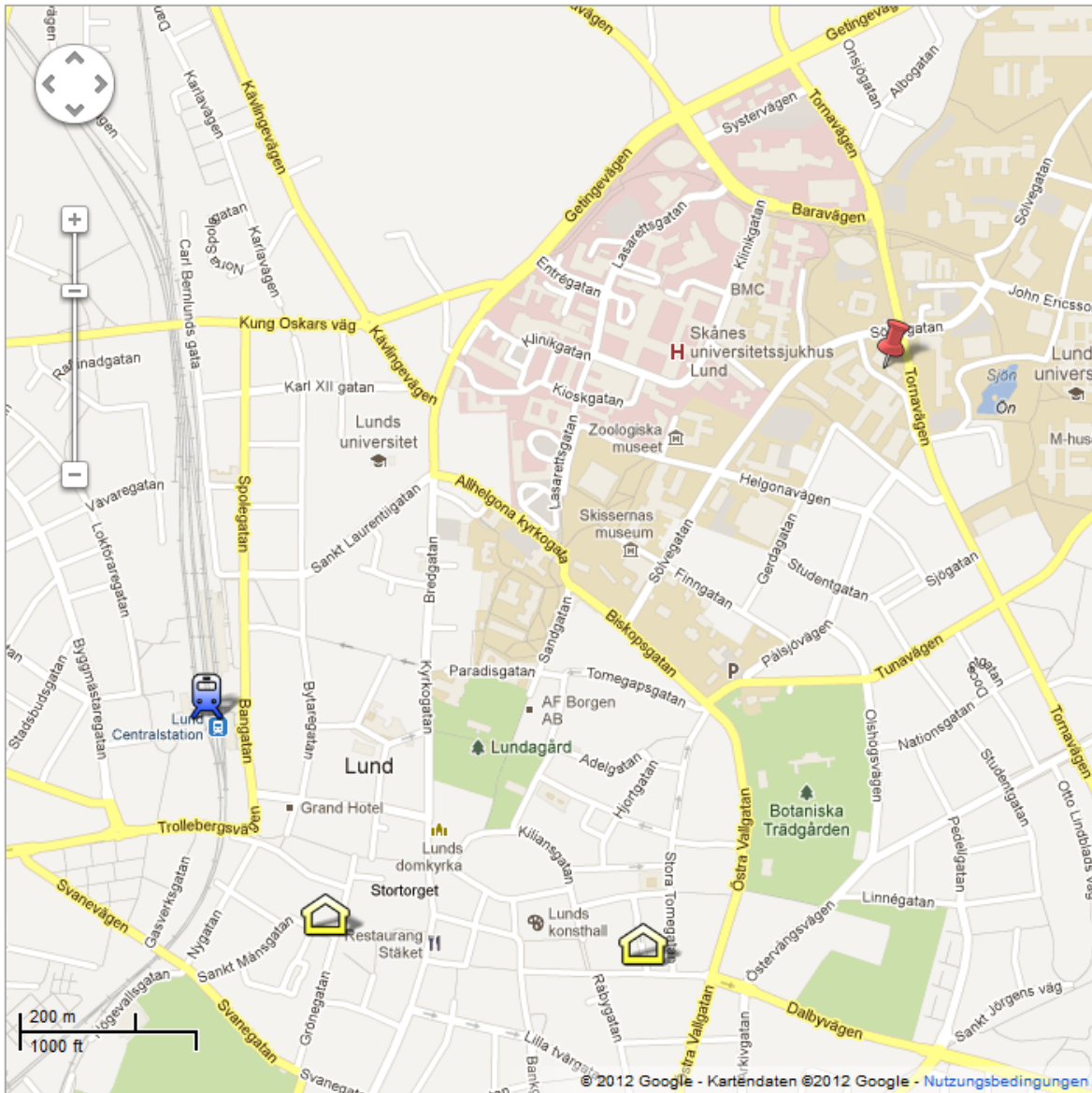
The closest local airport to Lund is **Malmö Airport** (also known as "Sturup"). It has flights from other Swedish airports including Stockholm and some international flights from destinations within Europe. There is an airport shuttle bus to Malmö airport (called "Flygbussarna") or you can get a taxi to Lund.

### Accommodation:

Please choose the accommodation that suits you best. We can recommend "StayAt Lund" with reasonable prices and the more expensive "Hotel Concordia", both located in the city centre. You can find, compare and book hotels at Lund's tourist office: <http://www.lund.se/en/Tourist-Information/Accommodation/>

### How to get to CIRCLE:

The workshop will take place at CIRCLE, located within 15 walking minutes from the train station and the city centre. Street address is Sölvegatan 16, Lund. Find the location on Google maps: <http://tinyurl.com/a68tt3o>



### CIRCLE Map

Street address: Sölvegatan 16

Öffentlich · 0 Ansichten

Erstellt am 9. Nov. · Von Roman · Vor weniger als einer Minute aktualisiert



CIRCLE

The workshop will take place at CIRCLE, street address is Sölvegatan 16, Lund.



Hotel Concordia



Stayat Lund



Lund Centralstation