

**Tècniques de Recerca****2014/2015**

Codi: 42277

Crèdits: 10

Titulació	Tipus	Curs	Semestre
4313335 Ciència Política / Political Science	OB	0	2

**Professor de contacte**

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**Utilització de llengües**

Llengua vehicular majoritària: anglès (eng)

Grup íntegre en anglès: No

Grup íntegre en català: Sí

Grup íntegre en espanyol: No

**Equip docent**

Eva Ostergaard-Nielsen

**Prerequisites**

The quantitative part of the module requires a basic knowledge of statistical analysis software such as Stata. For those students who have no prior training in such software it is necessary to follow a 'crash-course' which will be offered immediately before the beginning of the second semester.

**Objectius**

The aim of this course is for the students to be familiar with and know how to apply a series of the main social science research techniques of collecting and analysing data. In order to meet these objectives we include both quantitative and qualitative techniques. We cannot cover all the research techniques of the social sciences, but centre on those that can be found in the main social science journals. We prioritize issues of practical training and interpretation over very mathematical questions.

The sessions on quantitative and qualitative research techniques will be taught in parallel over the 8 weeks of the course. The classes combine theoretical lectures with seminars and sessions of practicing different techniques. An important part of the course takes place outside of the classroom in order to consolidate the use of a selection of the research techniques.

**Competències**

- Apply the qualitative and quantitative techniques necessary for the systematic and rigorous analysis of specific aspects of politics today.
- Demonstration reading comprehension for specialist texts in English.
- Design a research project that satisfies the criteria of rigour and academic excellence.
- Design and write projects and technical and academic reports autonomously using the appropriate terminology, arguments and analytical tools in each case.
- Identify the main methodological difficulties that arise in political analysis and know how to deal with them using the existing tools.
- Manage a set of political science data and specific sources, such as statistics, surveys or other documents.

- Using the appropriate criteria make an individual evaluation of reports, documents and research carried out by third parties.

## Resultats d'aprenentatge

1. Access data sources appropriate for the analysis of political science.
2. Demonstration reading comprehension for specialist texts in English.
3. Design and write projects and technical and academic reports autonomously using the appropriate terminology, arguments and analytical tools in each case.
4. Identify the appropriate qualitative techniques to respond to a research problem and analyse the qualitative data using the appropriate analysis techniques and the appropriate coding software.
5. Identify the main advantages and difficulties with respect to the validity and reliability of the techniques selected.
6. Identify the most appropriate statistical method to respond to a research question with the data available and analyse quantitative data using the appropriate statistical software.
7. Make socio-political phenomena observable and/or quantifiable.
8. Process and prepare data collected for analysis using the corresponding software
9. Relate one of more quantitative and/or qualitative techniques to a research question and justify why this was the most appropriate selection.
10. Understand the current debates and challenges of the main quantitative and qualitative research techniques.
11. Understand the main qualitative and quantitative research techniques.
12. Using the appropriate criteria make an individual evaluation of reports, documents and research carried out by third parties

## Continguts

### QUALITATIVE METHODS (ØSTERGAARD-NIELSEN)

#### Introduction

Session 1. (Østergaard-Nielsen) Introduction to qualitative research techniques: What are the main characteristics of qualitative research? How to assess validity and reliability in qualitative research. What kind of research questions can we ask using qualitative research techniques? Which types of qualitative techniques can best be combined and how may they be triangulated?

- Flyvbjerg, Bent (2004). 5 misunderstandings about case-study research, in Clive Seale et al. *Qualitative Research Practice*, London: Sage
- Flick, U. (2004). Triangulation in Qualitative Research. A companion to qualitative research. U. Flick, E. v. Kardorff and I. Steinke. London, Sage: 178--183.

#### Data Collection

Session 2, Fieldwork How to enter and exit the field? How to use fieldwork in political science research? The ethics of qualitative research methods.

Wood, E. J. (2007). Field research. *The Oxford Handbook of Comparative Politics*. C. Boix and S.C. Stokes, Oxford: Oxford University Press, pp. 123-146.

- Wolf, S. (2004). Ways into the field and their variants. A companion to qualitative research. U. Flick, E. v. Kardorff and I. Steinke. London, Sage: 195-202.

#### Optional:

- Bray, Zoe *Ethnographic Approaches*, in Della Porta, D. and Keating, M: *Approaches and methodologies in the social sciences: a pluralist perspective*, Cambridge University Press, 2008.

- Lichterman, Paul (2002). Seeing Structure happen: theory-driven participant observation, in Bert Klandermans and Suzanne Staggenborg (eds) *Methods of social movement research*, Minnesota: University of Minesota Press, pp. 118-45.

Session 3, Interviews What are the characteristics and differences between structured, semi-structured and open-ended/narrative interviews? How may the researcher sample the interviewees in a qualitative research project?

- Rathbun, B. C. (2008). Interviewing and qualitative field methods: pragmatism and practicalities in Janet M. Box-Steffensmeier, Henry E. Brady and David Collier (eds) *Oxford handbook of political methodology*, Oxford: Oxford University Press, pp. 685-701.
- Leech, B.L. 'Asking Questions: Techniques for Semi-structured Interviews, in *PS: Political Science and Politics*, vo. 35, no. 4, pp. 665
- How many qualitative interviews is enough? [http://eprints.ncrm.ac.uk/2273/4/how\\_many\\_interviews.pdf](http://eprints.ncrm.ac.uk/2273/4/how_many_interviews.pdf)

Read especially, introduction and conclusions and 5 more answers of your choice which should include the one by Ragin.

Session 4 Group Interviews (focus groups) + Documentary research

Introduction to how to plan, conduct and analyse group interviews/focus groups, Documentary research and evaluating written sources.

- Frey, J.H. and Andrea Fontana (1991). The Group Interview in Social Research, *The Social Science Journal*, Volume 28, Number 2, pages 175-187.
- Lieshout, Robert H. Mathieu L.L. Segers and Anna M. Van der Vleuten. 2004. De Gaulle, Moravcsik and The Choice for Europe: Soft Sources Weak Evidence. *Journal of Cold War Studies* 6(4): 89-139.

Session 5. Joint presentation and discussion of first hand experience in qualitative methodology

Data analysis: Introduction to different methods of qualitative data-analysis

Sessions 6, 7, 8 Analysis of Interviews: Introduction to CAQDAS and ATLAS.ti (Míriam Acebillo) Presentation of key features of grounded theory.

- Andréu Abela, Jaime; García-Nieto, Antonio; Pérez Corbacho, Ana M<sup>a</sup> (2007) Evolución de la teoría fundamentada como técnica de análisis cualitativo, en *Cuadernos Metodológicos* nº40, Centro de Investigaciones Científicas (CIS): pp. 53-79.
- Trinidad, Antonio; Carrero, Virginia; Soriano, M<sup>a</sup>Rosa (2006) "El soporte informático en la gestión de la información", Teoría fundamentada "Grounded Theory", en *Cuadernos Metodológicos* nº37, Centro de Investigaciones Científicas (CIS): pp. 101-123

This volume (n.37) is difficult to find. Thus, Abela et al. and Trinidad et al. are complementary readings.

- Lewins, A. & Silver, C. (2007) *Using software in qualitative research: a step-by-step guide*. London, Sage: cap. 2 (Only from page 16 to 25) & cap. 5
- Friese, S. (2011). "Using ATLAS.ti for Analyzing the Financial Crisis Data", Volume 12, No. 1, Art. 39 of FQS. *Forum Qualitative Sozialforschung / Forum: Qualitative Social Research*: <http://www.qualitative-research.net/index.php/fqs/article/view/1632/3150>

Sessions 9 and 10: Qualitative Comparative Analysis (QCA) (TBA)

- Schneider, Carsten and Claudius Wagemann. 2012. *Set-Theoretic Methods: A User's Guide*. Cambridge: Cambridge University Press.
- Ragin, Charles. 2008. *Redesigning Social Inquiry: Fuzzy Sets and Beyond*. Univer-

QUANTITATIVE METHODS (RICO)

## Session 1: Introduction

Data sources for quantitative analysis in the social sciences. Individual and aggregate data. Importing data to Stata. Exporting and presenting results. Replicability and research protocols.

- Diez, David M., Christopher D. Barr, and Mine Cetinkaya-Rundel (2012) OpenIntro Statistics, 2nd edition. Available at [www.openintro.org](http://www.openintro.org)

## Session 2: Introduction to statistical inference. Cross-tabulations.

Introduction to statistical inference. Hypothesis testing. Confidence Intervals

Bivariate statistics: an overview. Cross-tabulations.

- Diez, David M., Christopher D. Barr, and Mine Cetinkaya-Rundel (2012) OpenIntro Statistics, 2nd edition. Available at [www.openintro.org](http://www.openintro.org)
- Agresti, Allan (2009) Statistical Methods for the Social Sciences (4th edition, Pearson Prentice Hall, 2009)

## Session 3: Comparing means across groups

### T-test Oneway ANOVA

- Philip H. Pollock (2005) The Essentials of Political Analysis, 3rd Edition Congressional Quarterly, Inc., Chapters 3 and 4.
- Diez, David M., Christopher D. Barr, and Mine Cetinkaya-Rundel (2012) OpenIntro Statistics, 2nd edition. Available at [www.openintro.org](http://www.openintro.org)
- Agresti, Allan (2009) Statistical Methods for the Social Sciences (4th edition, Pearson Prentice Hall, 2009)

## Session 4: Correlations

- Philip H. Pollock (2005) The Essentials of Political Analysis, 3rd Edition Congressional Quarterly, Inc., Chapter 7
- Diez, David M., Christopher D. Barr, and Mine Cetinkaya-Rundel (2012) OpenIntro Statistics, 2nd edition. Available at [www.openintro.org](http://www.openintro.org)
- Agresti, Allan (2009) Statistical Methods for the Social Sciences (4th edition, Pearson Prentice Hall, 2009)

## Session 5: Linear regression.

Fitting a line: the OLS estimation. Constant and slope. Model fit

- Lewis-Beck, M. (1980). Applied regression: An introduction. Thousand Oaks: Sage Publications
- Agresti, Allan (2009) Statistical Methods for the Social Sciences, 4th edition, Pearson Prentice Hall

## Session 6: Introduction to multivariate regression.

The logic of statistical control. Causality and association. Multiple regression: Interpretation of coefficients. Model fit and inference. Standardized coefficients.

- Lewis-Beck, M. (1980). Applied regression: An introduction. Thousand Oaks: Sage Publications
- Agresti, Allan (2009) Statistical Methods for the Social Sciences, 4th edition, Pearson Prentice Hall

## Session 7: Multiple regression (II)

Regression assumptions. Linearity and other functional forms. Heteroscedasticity

Multicollinearity. Dichotomous variables in a multiple regression

- Lewis-Beck, M. (1980). Applied regression: An introduction. Thousand Oaks: Sage Publications

- Agresti, Allan (2009) Statistical Methods for the Social Sciences, 4th edition, Pearson Prentice Hall

#### Session 8: Multiple regression (III)

Categorical variables. Interactions

- Lewis-Beck, M. (1980). Applied regression: An introduction. Thousand Oaks: Sage Publications
- Agresti, Allan (2009) Statistical Methods for the Social Sciences, 4th edition, Pearson Prentice Hall

#### Session 9: Multiple regression by example

Basic model interpretation. Model building. Categorical variables. Interactions

#### Session 10: Logistic regression

Dichotomous and nominal dependent variables. The logistic model. Interpretation of coefficients and odds-ratios. Model fit and predictive efficacy. Implementation in Stata

- Philip H. Pollock (2005) The Essentials of Political Analysis, 3rd Edition Congressional Quarterly, Inc., Chapter 8
- Long, J. S., and J. Freese. 2006. Regression Models for Categorical Dependent Variables Using Stata. 2nd ed. College Station, TX: Stata Press.

#### Session 11: Logistic regression (II)

Postestimation and predicted probabilities. Marginal effects. Odds-ratios

- Long, J. S., and J. Freese. 2006. Regression Models for Categorical Dependent Variables Using Stata. 2nd ed. College Station, TX: Stata Press.
- Bernardi, Fabrizio ; Escobar Mercado, Modesto ; Fernández Macías, Enrique. (2010) Análisis de datos con Stata. Madrid: Centro de Investigaciones Sociológicas.

#### Session 12: Ordinal and multinomial logistic regression

Beyond dichotomous dependent variables. Ordinal logit: a model for ordinal dependent variables. Multinomial logit: a model for nominal dependent variables

- Long, J. S., and J. Freese. 2006. Regression Models for Categorical Dependent Variables Using Stata. 2nd ed. College Station, TX: Stata Press.

#### Sessions 13 and 14: Limits and alternatives to regression for causal inference (TBA)

- Causality and limits of multiple regression. The experimental method.
- Quasi-experimental methods: Propensity score matching and difference-in-differences

## Metodologia

The learning process will stem from a combination of theory (ordinary lectures) and practice. The students' participation is essential to achieve the desired goals.

Completing the assignments is necessary, and the professors will be open to the incorporation of your own research interests to the course, especially those related to your masters' theses.

## Activitats formatives

Títol	Hores	ECTS	Resultats d'aprenentatge
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Tipus: Dirigides

Collective tutoring/discussion of projects	5	0,2	5, 9, 11, 12
In-class practice	25	1	1, 4, 6, 7, 8, 11, 12
Lecture	30	1,2	5, 6, 10, 11

Tipus: Supervisades

Individual tutoring	10	0,4	3, 4, 5, 6, 7, 8, 9, 11
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Tipus: Autònomes

Qualitative data analysis	30	1,2	3, 4
Qualitative data collection/generation	30	1,2	3, 4, 7, 8, 11
Quantitative data analysis	30	1,2	3, 5, 6, 8, 11
Readings	30	1,2	2, 5, 10, 11, 12
Writing essays/reports	30	1,2	2, 3, 5, 10, 11, 12

## Avaluació

The major part of the evaluation of this module is through continuous practice and feedback on the understanding and use of various research techniques. The evaluation consists of

- Participation in class (it is obligatory to assist at least at 80% of the sessions in order pass this module)
- 6 exercises related to the different qualitative and quantitative research techniques.
- A take home exam related to the sessions in STATA

The evaluation on qualitative techniques represents 40% of the final grade: The students will hand in 3 exercises during the course:

- Exercise 1: Practice of interview and/or participant observation (30%)
- Exercise 2: Practice on the main Atlas.ti functions of support for analysis of qualitative interviews (20%)
- Exercise 3: Triangulation of qualitative research techniques in research project (50%)

The evaluation on quantitative techniques represents 60% of the final grade: The students will submit 3 assignments during the course. At the end of the semester, they will also complete a take-home exam. The grade will be based on the exam (50%) and the exercises (50%)

- Exercise 1: Exercise on bivariate statistics (10%)
- Exercise 3: Exercise linear regression (20%)
- Exercise 4: Logistic regression (20%)

The assignments might be substituted by partial submissions of a data analysis project related to the student's research interest.

## Activitats d'avaluació

Títol	Pes	Hores	ECTS	Resultats d'aprenentatge
Exercise logistic regression	12%	5	0,2	1, 3, 6, 7, 8, 9, 11

Exercise linear regression	12%	5	0,2	1, 3, 5, 6, 7, 8, 9, 12
Exercise on bivariate statistics	6%	3	0,12	1, 3, 6, 7, 8, 9, 11
Practice of Qualitative Comparative Analysis	8%	2	0,08	1, 2, 4, 7, 8
Practice of interview and/or participant observation	20%	6	0,24	3, 4, 5, 7, 9, 10, 11
Practice on the main Atlas.ti functions of support for analysis of qualitative interviews	12%	2	0,08	1, 2, 4, 7, 8
Quantitative exam	30%	7	0,28	2, 3, 5, 10, 11, 12

## Bibliografia

Agresti, Allan (2009) Statistical Methods for the Social Sciences, 4th edition, Pearson Prentice Hall.

Brady, Henry, E. and David Collier (eds) (2008) Oxford handbook of political methodology, Oxford: Oxford University Press.

Klandermans, Bert and Suzanne Staggenborg (eds) Methods of social movement research, Minnesota: University of Minnesota Press.

Denzin, N.K. and Y. Lincoln, Y. (2000) Handbook of qualitative research, 2nd ed., London: Sage.

Pollock, Philip H. (2005) The Essentials of Political Analysis, 3rd ed., Congressional Quarterly, Inc.

Lewis-Beck, M. (1980) Applied regression: An introduction. Thousand Oaks: Sage Publications.

Gelman, Andrew and Jennifer Hill (2007) Data Analysis Using Regression and Multilevel/Hierarchical Models. Cambridge: Cambridge University Press.