# UNIVERSITÀ DI TRENTO 

# Winter School in Survey Sampling Methods (SuSaM) <br> 17-28 January 2022, Department of Economics and Management (*) 

## Coordinated by Maria Michela Dickson



## UNIVERSITÀ

DI TRENTO

| 13.00-14.30 Lunch break |
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| $14.30-15.45$ : Group work with the tutor (to be defined). |
| $16.00-18.00$ Guided visit to Trento. |
| Evening free |
| Friday 21 |
| $8.00-19.00$ Outdoor seminar at Cantina Toblino Caves (lunch included) with excursion to Garda Lake |
| 9.30-12.00: Prof. Diego Giuliani and Dr. Maria Michela Dickson, University of Trento |
| Sampling designs to address old and new problems: how to sample spatial and hidden populations. |
| Take away dinner at 19.30 and evening free |
| ${ }^{*}$ ) When not differently specified, the activities will take place at the Department of Economics and Management, Via Inama 5, in ROOM |
| 1F (1st floor) | 1F (1st floor)

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| WEEK 2 - Monday 24 |  |
| :---: | :---: |
|  | 9.30-11.00: Dr. Guillaume Chauvet, ENSAI <br> Introduction to balanced sampling: Methodological aspects. Balanced sampling and linear programming. Th Cube method. |
| 11.30-13.00 Dr. Guillaume Chauvet <br> Estimation and technical aspects: Total and variance estimation. Quality of balancing. Approximations. |  |
| 13.00-14.30 Lunch break |  |
| 14.30-16.00: Dr. Maria Michela Dickson <br> R Lab: Implementation of balanced sampling designs. Informatics Room n. 1 (ground floor) |  |
| 16.30-18.00: Group work with the tutor (to be defined). |  |
| Dinner at the canteen and evening free |  |
| Tuesday 25 |  |
| 9.30-11.00: Dr. Guillaume Chauvet, Introduction to calibration estimators: Methodological aspects. Properties of the estimator. Calibration on marginal totals. |  |
| 11.30-13.00 Dr. Guillaume Chauvet, Treatment of nonresponse: Modelling nonresponse. Direct calibration. Practical problems. |  |
| 13.00-14.30 Lunch break |  |
| 14.30-16.00: Dr. Maria Michela Dickson, R Lab: Treatment of nonresponse. Informatics Room n. 1 (1st floor). |  |
| 16.15 meeting point at the entrance of Dept. of Economics and walk to Le Albere area 16.45-17.30: autonomous tour of MUSE - Science Museum followed by a guided visit until 18.30 |  |
| Dinner at the canteen and evening free |  |
| Wednesday 26 |  |
| 9.30-11.00: Dr. Danila Filipponi, Italian National Institute Coverage errors in surveys: Errors from a list. Undercoverage and Overcoverage. Not-reachable units. Possible solutions. of Statistics. |  |
| 11.30-13.00 Dr. Paolo Righi, Italian National Institute of Statistics Big data and survey sampling. |  |
| 13.00-14.30 Lunch break |  |
| 14.30-16.00: Dr. Flavio Santi, University of Verona Integration from different sources of data: Opportunities deriving from integration. Problems and practical solutions. New sources of data. |  |
| 16.30-18.00: Dr. Maria Michela Dickson <br> LimeSurvey - a plafform to conduct surveys: Use of the platform. Creation of tokens. Anonymization and saving of information. Informatics Room n. 1 (ground floor) |  |
| Dinner at the canteen and evening free |  |
| Thursday 27 |  |
| 8.00-13.30: A healthy start on the snow: a 2-hour slide on cross-country skiing on Monte Bondone Transfer by private bus. Please bring a complete change to leave on board. |  |
| 13.30-14.30 Lunch break |  |
| 15.00-18.00: Group work with the tutor (to be defined). |  |
| Dinner at the canteen and evening free |  |
| Friday 28 |  |
| $8.00-10.00$ free time to possibly make the swab test if necessary before departure <br> 10.00-12.00: Short presentation of UniTrento and delivery of the certificates of attendance and ToRs for 6 ECTS. Sharing of your best shots, videos, and feelings, by the International Relations Division, Conference Room ground floor of the Dept. of Economics and Management, Via Inama 5. |  |
| 12.30-14.00 Farewell lunch at Restaurant Rosa D'Oro |  |
| 14.30-17.00: Presentation of group works. |  |
|  | Take away dinner at 19.30 and evening free |

