Marie Skłodowska Curie Individual Fellowship 2019
Expression of Interest for hosting Marie Curie Fellows

1. Supervisor (name and e-mail address)

| Marica Manisera | marica.manisera@unibs.it |

2. Department (name and address)

| Economics and Management |
| DMS StatLab - Big&Open Data Innovation Laboratory (BODaI-Lab) |

3. Panel (choose one)

- Chemistry (CHEM)
- Social Sciences and Humanities (SOC)
- Economic Sciences (ECO)
- Information Science and Engineering (ENG)
- Environment and Geosciences (ENV)
- Life Sciences (LIF)
- Mathematics (MAT)
- Physics (PHY)

4. Description of your research activities (max 10 lines)*

The researcher will be involved in a research activity focused on statistical modelling for ordinal data (or rating data), in particular coming from survey questionnaires with Likert-type response scales, with special attention devoted to the presence of unobservable variables. The aim is to propose new statistical models (in particular, new variants of CUB models - Combination of a discrete Uniform and a shifted Binomial distributions) able to represent the psychological decision process driving individuals to choose a given response on a rating scale. The proposed models will be applied to real data coming from questionnaires in several fields, with special attention to sport psychology and sensory analysis, thanks to the existing cooperation with two research projects developed within the Big&Open Data Innovation Laboratory of the University of Brescia: the BDsports project (website: bdsports.unibs.it) and the BDsensory project (website: bdsensory.unibs.it).

5. Key-words

- Ordinal data modelling
- Survey questionnaires
- Rating data
- Sport psychology
6. **Short CV of the supervisor (max 5 lines)**

Associate Professor of Statistics. Her scientific research is in Statistical Sciences, with methodological and applied approach. She has (co)authored more than 50 scientific publications and participated to more than 40 national and international conferences. Member of several research projects, granted by national and international funds. She coordinates, with Paola Zuccolotto, the international project BDsports on statistics in sports.

7. **List of 5 main publications of the supervisor**


*Please consider that the preparation of a Marie Curie proposal requires some time. Fellow and supervisor have to agree on a project and training opportunities for the fellow.*