

STATISTICAL METHODS AND MODELS FOR COMPLEX DATA

The Department of Statistical Sciences (DSS) aims at becoming an international hub for the innovative research focused on the analysis of complex data and for the training of professional profiles able to respond to the rapid evolution of the job market.

The excellence project main objectives are:

- To develop new competencies in the analysis of complex data favoring the synergies among the various knowledges within and between university departments in Padova;
- To train research and professional profiles with excellent competencies in the analysis of data with a complex structure; this will be achieved by the creation of new subject courses within the current study programs at the Master and PhD levels;
- To contribute to the development and diffusion of the statistic discipline with reference to the management and interpretation of complex data for solving real problems;
- To become a national and international reference center for consulting and training activities, in order to reduce the mismatch between the demand and offer of research and competencies in terms of complex data, pointing at reducing the transition time from the idea, the scientific result and the market/production implementation.

To reach project objectives the DSS will take the following main actions:

- Open new positions: one at the level of Full Professor, one at the level of tenure-track Assistant Professor, one at the level of untenured Assistant Professor; the positions will have different responsibilities within the project and different areas of expertise; recruitment will be completed with 8 post-doc positions (each lasting for 2 years); all positions will be exposed to both research and teaching;
- Infrastructures: improving the IT infrastructure for scientific computation, taking advantage of a joint project involving several Departments of the University of Padova;
- Consultancy: open a consultancy and training center that points at becoming a reference hub for the analysis of complex data.
- Teaching: launch a visiting professor program for increasing the teaching quality within the PhD program in Statistic and to stimulate the international relations;
- Incentives and benefits: to stimulate the involvement in project activities and to improve the level of the recruitment, the project includes economic incentives granted to new positions and to current Department members conditional to the active role taken within the project and the impact of the activities developed within the project and within the consultancy center.