



UNIVERSITÀ
DEGLI STUDI
DI TORINO



Politecnico
di Torino

INTERUNIVERSITY MASTER'S DEGREE IN



Politecnico
di Torino



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Dipartimento Interateneo di Scienze, Progetto e Politiche del Territorio
Eccellenza MIUR 2018-2022



ARCHEOLOGIA
GEOGRAFIA
STORIA
STORIA DELL'ARTE
STORIA DEL LIBRO
E DEL DOCUMENTO

DIPARTIMENTO DI
**STUDI
STORICI**

THE MASTER'S DEGREE PROGRAMME

The **Interuniversity Master's degree in Geography and Territorial Sciences** trains **GEOGRAPHERS, professional experts** who are able to integrate cultural, technical and planning knowledge for the analysis, organization and management of environmental and territorial dynamics. In the first year students acquire competencies in the field of **physical and human geography** which allow them to understand the environmental and social phenomena connected to processes of **global change** at different scales. Also in the first year students learn the main tools of **geomatics** (digital cartography, remote sensing and Geographic Information Systems - GIS). In the second year students can direct their studies towards specific skills, depending on their personal inclinations and their professional interests, referable to one of the following training areas:

- **GEO-DATA SCIENCE**, which combines knowledge of geomatics with applied computer science (programming languages, databases, Big Data and Artificial Intelligence) to provide future **GIS analysts with the necessary skills to develop new analytical methods and to implement automated workflows in the geomatics domain**;
- **APPLIED GEOMORPHOLOGY** covers the analysis of the elements and physical processes of the geosphere. It trains **professionals in the protection of territorial fragility** and in the **prevention and mitigation of natural risks**;
- **APPLIED METEOROLOGY** studies atmospheric phenomena and climatic events for **weather-climatic forecasts**. It trains **meteorological experts** who work in different **sectors of institutional activities and the economy**;
- **CONSERVATION AND ENHANCEMENT OF CULTURAL LANDSCAPES** provides skills in the analysis of the physical, historical and cultural components of the landscape and the environment. It trains **experienced professionals** in the interpretation of the historical dynamics of the territory by operating, in particular, **in the field of preservation and promotion of the cultural and landscape heritage**;
- **TERRITORIAL DEVELOPMENT** deals with the study and analysis of the forms of organization of urban and regional systems. It trains **experienced professionals in territorial policies** for environmental sustainability, socio-economic resilience, spatial justice, inclusion and security, international development cooperation and geo-marketing.

The **GEOGRAPHERS** work in Italy or abroad in:

- public and private research centers;
- earth monitoring centers;
- development agencies, professional offices and firms operating in the field of territorial and sustainable development;
- governmental institutions at international, national, regional and local level;
- public offices for territorial planning, environmental protection and management, protection and enhancement of landscape and historical-cultural resources, territorial development policies, international development cooperation organizations;
- publishing houses and companies producing geographical documentation and documentaries.

In Italy the Geographers can teach Geography (A-21) in secondary school if they have of the required university credits and if they have completed the specific post-graduate training course.

STUDY PLAN

1st Year

- Storia, teoria e metodi della geografia or Geography, theory and practice
- Climatologia e modelli climatologici or Applied climatology
- Geomorfologia e rischi naturali or Geomorphology and soil conservation
- Geografia dei sistemi economici mondiali or Urban studies
- Politica e processi di globalizzazione or State and the City
- Telerilevamento e osservazione della Terra or Remote sensing
- Geographic information systems or Advanced GIS

2nd Year

- Politiche territoriali or Urban and Regional Development
- two elective courses
- two free choice courses
- laboratories or traineeship
- thesis


The programme offers several **English-taught courses** (for both elective and free courses) that students can choose to construct an international study plan.

Students can take part in **internships** at host organizations in Italy and abroad.

Partnerships and students exchange programs with international universities

- **France:** Université Paris-Diderot / Paris VII, Université de Lille, Université de Toulon, Université de Reims Champagne-Ardenne, Université Côte d'Azur (Nizza), Institut National Universitaire Champollion (Albi), Université de Savoie Mont-Blanc (Annecy – Chambéry), Université des Antilles et de la Guyane (Pointe-à-Pitre)
- **Portugal:** Universidade de Aveiro, Universidade do Minho (Braga)
- **Spain:** Universidad de Valladolid, Universidad de Zaragoza
- **Greece:** University of the Aegean (Mitilene), Harokopio University (Kallithea), University of Patras
- **Germany:** Goethe-Universität (Frankfurt)
- **The Netherlands:** University of Twente
- **Poland:** Uniwersytet Im. Adama Mickiewicza (Poznań)
- **Sweden:** Mid Sweden University (Sundsvall)

The Master's degree organizes activities to train students towards the acquirement of **ECDL-GIS certificates** in cooperation with LARTU (Territorial and Urban Analysis and Representation Laboratory).



The GEOGRAPHERS study and represent the organization of territories in their relational and dynamic aspects at both environmental and anthropic level. The work of the geographers contributes to implementing projects for the representation, management, protection and transformation of territories.

CONTATTI

Tutors

Prof. Andrea AJMAR
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Didactic manager

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LARTU - Laboratorio di Analisi e Rappresentazioni Territoriali e Urbane

Test center for ECDL-GIS certification
<http://www.ecdlgis.polito.it/>

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More information are available at
www.geography.unito.it