



PhD in INGEGNERIA GESTIONALE / MANAGEMENT ENGINEERING - 38th cycle

**INTERDISCIPLINARY Research Field: WOMAN MOBILITIES IN THE PANDEMIC ERA.
TOWARDS A MORE INCLUSIVE MOBILITY**

Monthly net income of PhDscholarship (max 36 months)

€ 1400.0

In case of a change of the welfare rates during the three-year period, the amount could be modified.

Context of the research activity

**Motivation and objectives of the research
in this field**

Interdisciplinary PhD Grant

The PhD research will be carried out in collaboration with research groups of the PhD programme in "**URBAN PLANNING, DESIGN, AND POLICY**".

See <https://www.dottorato.polimi.it/?id=422&L=1> for further information.

A rich body of work on mobility has shown that gender & together with other socio-economic, cultural, and demographic features & influences individuals' travel behaviors and mobility patterns and practices and should, therefore, be considered when planning transport (Marolda, 2019; Law, 2016; Scholten & Joelsson, 2019; Uteng et al., 2020; Uteng & Cresswell, 2008; Walsh, 2002). Compared to man mobility, woman mobility, at all ages, is characterized by (i) more complex daily trip chains, resulting from woman need to balance professional life greater family care responsibilities, and (ii) greater dependence on local public transport and forms of active mobility (Gilow, 2020; McGuckin & Murakami, 1999; Sánchez de Madariaga & Zucchini, 2019). Such mobility patterns may have changed due to the Covid-19 pandemic and the related policy measures (e.g., distributing, digitalizing, de-synchronizing), which have transformed the organization of social life and work-related conditions. This research proposal investigates the impact of the pandemic and the recovery phase on woman mobility patterns considering different living



	<p>settlements, socio-economic and family conditions, individual attitudes (e.g., attitude towards sustainability, safety concerns), and skills. Specifically, the proposal addresses the following research questions: 1) Has the Covid-19 pandemic affected woman mobility patterns? If so, to what extent? 2) Which mobility policies and accessibility by proximity measures have been proposed to deal with the Covid-19 pandemic constraints in the several living settlements? What are their effects on woman mobility?</p>
<p>Methods and techniques that will be developed and used to carry out the research</p>	<p>A mixed-method approach will be adopted to address the research questions. A critical literature review will be combined with a qualitative and quantitative approach to define place-based mobility habits and needs affecting woman mobilities in selected contexts (the baseline scenario). Then, the following data will be collected: (i) data about urban settlements and transport supply features; (ii) digital data on individuals' daily mobility practices during the pandemic. In addition, surveys to samples of women in the chosen contexts will be conducted. These data will be used to profile woman daily mobility patterns during the pandemic, relying on methodologies taught at UPDP, and to perform quantitative analyses on the impact of the pandemic on woman mobility patterns, exploiting the competencies in econometrics developed at DRIG.</p> <p>The competencies in policy analyses, developed in the two doctoral programs, will then be combined to analyze - in the chosen contexts - opportunities and barriers for woman mobility practices, which have arisen during the policy measures' implementation in the pandemic period. This will also allow designing future place-based and gender-balanced policy measures. Additional interdisciplinary methods and techniques to be adopted concern spatial analysis and data mapping on morpho-functional settings, transport supplies, services impacting mobility practices, and ethnographical analysis.</p>
<p>Educational objectives</p>	<p>At the end of the program, the Ph.D. candidate should: possess adequate research skills in the fields of management and transportation; be able to realize</p>



	literature reviews; build and analyze large dataset using statistical and econometric techniques, but also conduct qualitative analyses; be able to analyse the impact of specific policy measures.
Job opportunities	Academia, public administrations, public and private research centers, consulting firms.
Composition of the research group	5 Full Professors 2 Associated Professors 4 Assistant Professors 11 PhD Students
Name of the research directors	Evila Piva, Paola Pucci

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Additional support - Financial aid per PhD student per year (gross amount)	
Housing - Foreign Students	--
Housing - Out-of-town residents (more than 80Km out of Milano)	--

Scholarship Increase for a period abroad	
Amount monthly	700.0 €
By number of months	6

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information
<p>Candidates with a background in Economics, Management Engineering, Mobility Engineering or Urban Planning and Policy Design, and quantitative skills are encouraged to apply.</p> <p>The candidate might be involved as research associate in additional research projects and as teaching assistant in courses of Business Economics and Organization or in courses offered at the MSc in Management Economics and Industrial Engineering.</p> <p>The candidate will have the right to use the shared workstations at the department of Management Economics and Industrial Engineering and will get a laptop from the research group.</p> <p><i>Funding for educational activities: 5.700,00 Euros for three years.</i></p> <p><i>Teaching assistantship: There are various forms of financial aid for activities of support to the teaching practice. The PhD student is encouraged to take part in these activities, within the limits allowed by the regulations.</i></p>

