



# Mahnaz Babapour

## EDUCATION AND TRAINING

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### PhD

**Sapienza University of Rome** [ 01/2022 – Current ]

City: Rome | Country: Italy | Field(s) of study: Infrastructures and Transport | Thesis: Citizen Travel Habits: a new solution to encourage sustainable commuting and facilitate the assessment of mobility management policies

### Master's degree

**Sapienza University of Rome** [ 10/2018 – 10/2021 ]

City: Rome | Country: Italy | Field(s) of study: Transport Systems Engineering | Final grade: 108/110 (27.06 /30) | Thesis: Mobility as a Service

### Europe's Erasmus Student Exchange Program

**100% ERASMUS Scholarship to Study at Zagreb University** [ 10/2019 – 06/2020 ]

City: Zagreb | Country: Croatia

### Bachelor of Science

**Guilan University** [ 2006 – 2011 ]

City: Rasht | Country: Iran | Field(s) of study: Civil engineering

## WORK EXPERIENCE

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### **Sapienza University of Rome** – Rome, Italy

City: Rome | Country: Italy

#### Teaching Assistant

[ 11/2023 – 02/2024 ]

Sustainable Transport Planning course

### **Movesion** – Rome, Italy

City: Rome | Country: Italy

Link <https://www.movesion.com/>

#### Consultant

[ 01/01/2022 – 28/02/2023 ]

Assessing user travel habits to improve workplace travel plans.

### **Islamic Azad University, East Tehran Branch** – Tehran, Iran

City: Tehran | Country: Iran

#### Lecturer

[ 06/2016 – 02/2017 ]

Road Construction, Road Construction Project and Technical Drawing and Construction Drafting courses

## PUBLICATIONS

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[1] Determinants of Public Transportation Satisfaction Among Employees: Insights from Italian Cities Through Statistical and Spatial Analyses

Babapourdijojin M, Corazza MV, Gentile G. To be presented at the XXVII International Conference LWC 2025, 11-12 September 2025, Brescia, Italy.

## **[2] Regional and Gender-Based Commuting Trends: A Spatial and Behavioural Analysis of Employees' Use of Sustainable Transport in Italian Metropolitan Areas**

Babapourdijojin M, Corazza MV, Gentile G. To be presented at the Transportation Research Symposium (TRS 2025), 25-28 May 2025, Postillion Hotel, Rotterdam, The Netherlands.

## **[3] Systematic Analysis of Employees' Commuting Behaviour in Italy Using K-means Clustering and Spatial Analysis: Towards Inclusive and Sustainable Urban Transport Solutions**

Babapourdijojin M, Corazza MV, Gentile G. Systematic Analysis of Commuting Behavior in Italy Using K-Means Clustering and Spatial Analysis: Towards Inclusive and Sustainable Urban Transport Solutions. *Future Transportation*. 2024; 4(4):1430-1456. <https://doi.org/10.3390/futuretransp4040069>

## **[4] Factors Influencing Car Use and Car Drivers' Willingness to Use Bicycles, E-scooters, and Public Transport: A Binary Logistic Regression Analysis**

Babapourdijojin M, Corazza MV, Gentile G, Bresciani.M, L.M . The 26th Euro Working Group on Transportation Meeting (EWGT 2024), 4-6th September 2024, Lund, Sweden.

## **[5] Employees' Reasons for Choosing Public Transport and their Satisfaction and Attitudes: A Binary Logistic Regression Analysis**

Babapourdijojin M, Corazza MV, Gentile G. A poster presentation at Urban Transitions 2024, 5-7th November 2024, Sitges, Spain.

## **[6] Assessing the Mobility Impact on the Corporate Social Responsibility**

Babapourdijojin, M., Gentile, G. (2023). Assessing the Mobility Impact on the Corporate Social Responsibility. In: Kabashkin, I., Yatskiv, I., Prentkovskis, O. (eds) Reliability and Statistics in Transportation and Communication. RelStat 2022. Lecture Notes in Networks and Systems, vol 640. Springer, Cham. [https://doi.org/10.1007/978-3-031-26655-3\\_30](https://doi.org/10.1007/978-3-031-26655-3_30).

## **[7] Assessing the benefits and external costs of road transport in Italy**

Babapourdijojin M, Gentile G. "Assessing the Benefits and External Costs of Road Transport in Italy," 2023 8th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS), Nice, France, 2023, pp. 1-6, doi: 10.1109/MT-ITS56129.2023.10241486.

Link: <https://ieeexplore.ieee.org/document/10241486>

## **[8] Machine Learning-Enhanced Conformal Prediction Approach for Road Traffic Accident Severity Assessment: A Case Study of Rome**

Eldafrawi, Mohamed and Varghese, Ken Koshy and Afsari, Marzieh and Babapourdijojin, Mahnaz and Gentile, Guido, Machine Learning-Enhanced Conformal Prediction Approach for Road Traffic Accident Severity Assessment: A Case Study of Rome. Available at SSRN: <https://ssrn.com/abstract=4679159> or <http://dx.doi.org/10.2139/ssrn.4679159>

## **[9] Predictive Analytics for Road Traffic Accidents: Exploring Severity through Conformal Prediction**

Mohamed Eldafrawi, Ken Koshy Varghese, Marzieh Afsari, Mahnaz Babapourdijojin, Guido Gentile. The 103rd Transportation Research Board (TRB) Annual Meeting, January 7-11, 2024

## **[10] Urban Commuting Preferences, Employees' Perceptions of Public Transport, and Willingness to Adopt Active Transport: K-modes Cluster Analysis**

## PROJECTS

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### Giubileo (Jubilee) 2025 – Data Analyst

#### HONOURS AND AWARDS

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[ 19/10/2023 ] Sapienza University of Rome

##### Teaching Assistant

I was selected through a public competition as a teaching assistant for several courses at the Sapienza University of Rome. These courses included **Sustainable Transport Planning, Traffic Engineering and ITS, and Freight Transport and Logistics.**

Link: [https://web.uniroma1.it/trasparenza/dettaglio\\_bando\\_albo/208732](https://web.uniroma1.it/trasparenza/dettaglio_bando_albo/208732)

[ 11/2024 ] Sapienza University of Rome

##### SmartUrbanity- Advancing 15-Minute Cities through Collaborative and Smart Urban Solutions

I had the privilege of collaborating on the development of the SmartUrbanity proposal, which was successfully selected under the Driving Urban Transitions support. Our collective efforts focused on designing innovative, citizen-centric solutions to advance 15-minute cities through smart and inclusive urban planning. By integrating accessibility, security, and participatory planning, we aimed to create more sustainable and connected urban environments.

[ 18/07/2023 ] Sapienza University of Rome

##### Bando Coordinamento progetti Horizon Europe ("Coordination of Horizon Europe collaborative projects", call for proposals)

I was honored to write a proposal aimed at addressing the objectives outlined by one of the Horizon Europe 2023 projects, entitled 'Policies and Governance Shaping the Future Transport and Mobility Systems.' This proposal has been selected for funding, with a grant of 9,000 euros.

[ 21/12/2022 ] Istituto Nazionale Previdenza Sociale (INPS)

##### Infrastrutture e trasporti - Tema della Ricerca: Lavoro agile e spostamenti sistematici: l'impatto dello smart working sulla mobilità sostenibile e l'ambiente

I had the privilege of collaborating on the development of a proposal titled 'The Impact of Smart Working on Sustainable Mobility and the Environment,' which has been selected for a grant of 67,722 euros .

##### Transferring Human Experience into Bike Network Evaluation Technologies

In 2024, I had the privilege of collaborating on the development of a proposal focused on cyclist safety, which was successfully selected for funding.

[ 05/11/2024 ] Urban Transitions Conference 2024

##### Session Chair- Urban Transitions Conference 2024

**Session 3:** Proximity and Health, held in Sitges, Spain, on 5th November, from 10:00-11:00.

**Session 9:** Issues in Cities, held in Sitges, Spain, on 5th November, from 15:00 to 16:00.

## SKILLS

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Data analysis / Machine learning / QGIS / SPSS / Questionnaire design / NLP

## LANGUAGE SKILLS

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**Mother tongue(s):** Azerbaijani, Persian, Turkish

**Other language(s):** English (C1), Italian (A2), German (A1)

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Rome, 07/05/2025